Improving Pneumonia Vaccination Rates in Patients with Cancer at Texas Oncology Balcones

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Abstract

The Centers for Disease Control (CDC) guidelines outline that immunocompromised patients, including those with cancer, should receive two pneumococcal vaccinations, Pneumococcal conjugate vaccine (PCV13 or Prevnar 13®) and pneumococcal polysaccharide vaccine (PPSV23 or Pneumovax®), to acquire immunity against pneumococcal diseases. The recommendation for adults ages 19-64 is to first receive the PCV13 vaccine, then PPSV23 at least 8-weeks later. A second dose of PPSV23 is then recommended 5-years after the initial PPSV23 (CDC, 2015b). Proper documentation of vaccination status is vital to ensure the CDC guidelines are followed accurately. A sample of 117 patient charts at the Texas Oncology Balcones location revealed that 44% of patient charts have insufficient documentation of pneumococcal vaccination status. Thus, the objective of this quality improvement project is to increase the documentation of pneumococcal vaccination among patients with cancer at the Balcones location of Texas Oncology to 80% by the end of February 2016. The interventions implemented to achieve this goal are: 1) adding a prompt inquiring the patient’s pneumonia vaccine status to the Fax Cover Sheet, The New Patient Intake Form, and The New Patient and Family History Form. 2) Training the medical assistants on how to appropriately document vaccination status into the electronic medical record system used by Texas Oncology (iKnowMed). The interventions were implemented from the beginning of December 2015 through the end of February 2015. Data will be collected after this point to assess any change in pneumococcal vaccination documentation rates at the Texas Oncology Balcones location.

Keywords: Immunocompromised, pneumococcal, vaccination, quality improvement
APPENDIX

Figure 1

Original Texas Oncology Fax Cover Sheet

Figure 2

Texas Oncology New Patient Intake Form with Proposed Intervention
IMPROVE PNEUMONIA VACCINE RATES IN CANCER PATIENTS

Texas Oncology Form Title of Form With Proposed Intervention

Figure 3

Please list the names of hospital(s) or clinic(s) where you had x-rays in the last six months:

Female:
- Last mammogram:
- Last pap smear:
- Last colonoscopy:

Male:
- Last colonoscopy:
- Last prostate exam:

Is there any family history of cancer, blood disorders, cardiovascular disease, or other medical problems? If so, record below

(M) = Maternal  (F) = Paternal

Figure 4

IKnowMed Pneumonia Vaccine Documentation Options
Figure 5

Pneumonia Vaccination Documentation at Texas Oncology Balcones from September 2015 - October 2015