<table>
<thead>
<tr>
<th>By Discharge</th>
<th>Key Changes for Improving Pneumonia Care</th>
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</thead>
</table>
| Antibiotics within 4 hours of arrival | • Develop preprinted orders/protocols that prompt to give antibiotics  
• Visible reminder or checklist to prompt  
• Provide reports of antibiotic timing comparing hospital to other facilities  
• Work with ED personnel to start antibiotic in ED  |
| Initial antibiotic according to guidelines | • Develop preprinted orders/protocols that include antibiotic choices  
• Make initial antibiotic guidelines easily accessible to staff through pocket-sized cards and posting in medication room  
• Physician and nurse education on current antibiotic recommendations  
• Encourage pharmacists to consult on antibiotic use for pneumonia patients  
• Provide reports of antibiotic use comparing hospital to other facilities  
• Infection Control Nurse or other designee to review utilization  |
| Blood cultures performed within 24 hours | • Develop preprinted orders/protocols that prompt blood culture testing  
• Visible reminder or checklist to prompt testing  
• Infection Control Nurse or other designee to review for testing  
• Provide reports of blood culture testing comparing hospital to other facilities  |
| Blood culture prior to first dose of antibiotic | • Develop preprinted orders/protocols that prompt for testing prior to antibiotic  
• Visible reminder or checklist to prompt testing before antibiotic  
• Educate nursing staff on importance of obtaining a culture prior to antibiotic  
• Provide reports of compliance comparing hospital to other facilities  
• Develop method to clearly document time of initial antibiotic and time of blood cultures  |
### Pneumonia Improvement Strategies (cont)

<table>
<thead>
<tr>
<th>Section</th>
<th>Strategies</th>
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</table>
| Oxygenation assessment        | - Develop preprinted orders/protocols that prompt for ABG or SaO2 check  
- Visible reminder or checklist to prompt testing  
- Infection Control Nurse or other designee to review utilization  
- Provide reports of compliance comparing hospital to other facilities |
| Influenza vaccination         | - Develop standardized method for assessing vaccination status using nursing admission database, preprinted history & physical assessment forms or adult immunization assessment forms  
- Develop preprinted orders/protocols for influenza vaccination  
- Chart sticker physician prompts to order vaccine for indicated patients  
- Develop a patient history/tracking system to track vaccine status through permanent chart sticker, database etc. |
| Pneumococcal vaccination      | - Develop standardized method for assessing vaccination status using nursing admission database, preprinted history & physical assessment forms or adult immunization assessment forms  
- Develop preprinted orders/protocols for pneumococcal vaccination  
- Chart sticker physician prompts to order vaccine for indicated patients  
- Develop a patient history/tracking system to track vaccine status through permanent chart sticker, database etc. |

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Page 2 of 3.  
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| Adult smoking cessation advice/counseling | • Develop method to assess each patient’s smoking status using nursing admission database, preprinted history & physical assessment forms or other  
• Develop preprinted orders/protocols that prompt smoking cessation counseling for adult smokers  
• Designate responsibility and accountability for ensuring appropriate counseling to one person per shift  
• Encourage allied health staff to provide smoking cessation counseling  
• Provide counseling during other routine contact  
• Create reminder system to encourage smoking cessation counseling  
• Create documentation system to capture counseling done  
• Coordinate efforts with patient’s physician for follow-up in office |

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