



**COMMUNITY PHARMACY FOUNDATION**  
COMPLETED GRANT SYNOPSIS

**e-Prescribing/Patient Safety Analysis utilizing the Pharmacy and Prescriber e-Prescribing Experience Reporting (PEER) Portal**

Alliance for Patient Medication Safety  
National Alliance of State Pharmacy Associations

Richmond, VA

<b>Objectives</b>	
1) Identify the types and quantify the problem(s) pharmacies and prescribers experience with e-prescribing through a data collection and analysis mechanism, 2) Estimate the financial impact of e-prescribing by including “time spent in resolution,” 3) Develop recommendations for possible solutions.	
<b>Methods</b>	
Design	<ul style="list-style-type: none"> <li>• Development of a web-portal: “the Pharmacy and Prescriber e-prescribing Experience Reporting (PEER) Portal” to collect data on electronic prescribing problems nationwide.</li> <li>• Prospective data analysis</li> </ul>
Study endpoints	<ul style="list-style-type: none"> <li>• Quantify type and number of electronic prescribing problems</li> </ul>
<b>Results</b>	
<ul style="list-style-type: none"> <li>• A total of 308 reports were received during the study; 86% of respondents (n=266) were pharmacists, 10% (n=31) technicians, 3% (n=9) students, and 0.3% physicians (n=1).</li> <li>• The majority of reports; 97% (n=298) came from pharmacies (including retail, mail-order, and outpatient clinics), 2% (n=7) from medical offices and one report came from other unspecified setting.</li> <li>• In 38% of the reports the incidents described were “near misses;” only 4% of the reported incidents reached the patient.</li> <li>• The majority of reports involved problems with SIG/directions (25%) and quantity selection (18%), followed by electronic prescriptions containing conflicting information (11%) and dose selection (10%).</li> <li>• The median of the time spent resolving problems was 10 min (IQR=10), which represents an estimate of \$9.00 per e-prescription issue resolved.</li> </ul>	
<b>Conclusion</b>	
<p>The PEER Portal showed to be a successful tool to report e-prescribing problems. It allowed health care personnel to report weakness of prescribing systems. This research showed evidence that there are a variety of issues regarding e-prescribing. The majority of the issues reported in this study were related to SIG and quantity selection. System changes are necessary in order to decrease or eliminate some of these issues.</p>	

For further information and/or materials on this grant, please visit  
[www.CommunityPharmacyFoundation.org](http://www.CommunityPharmacyFoundation.org) and submit your inquiry through **Contact\_Us**.