Pharmacists Improving Hoosier Health: Indiana Landscape of Medication Management Services

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Roadmap for Today

Pharmacists in Indiana

Indiana Pharmacists Association Survey

Pharmacist practice spotlights
Indiana Pharmacists

- Practice in community pharmacies: 41.7%
- Practice in hospital pharmacies: 26.9%
- Practice in clinics: 6%
- Practice in other settings: 25.4%

7,000 pharmacists

Bowen Center. https://medicine.iu.edu/family-medicine/research/bowen-health-workforce
Population per Pharmacist FTE

Source: Indiana Pharmacist Re-licensure Survey, 2016
Bowen Center. https://medicine.iu.edu/family-medicine/research/bowen-health-workforce
There’s More Than Dispensing in Indiana

- Collaborative drug therapy management
- Standing orders – tobacco, vaccines, naloxone
- Medication therapy management
- Preventive care
- Transitions of care
Indiana Pharmacists Association Survey

Two surveys developed and distributed in 2019

• Health-system/clinic survey
• Community pharmacy survey

Goal: Determine non-dispensing services offered

• Additional data collected on billing practices, interest in future expansion of services
35 health-systems/clinics responded

- Average pharmacist FTE devoted to non-dispensing services: 7.2
- Two health-systems reported > 30 pharmacist FTE
- Pharmacists are embedded in clinics and offer individualized management of conditions

51 community pharmacies responded

- No discernment between dispensing and non-dispensing FTEs
- 70% interested in growing non-dispensing services within next year
Outpatient Health-System & Clinic Pharmacists’ Areas of Focus

- Primary Care
- Anticoagulation
- Endocrinology
- Oncology
- Infectious disease
- Cardiology
- Mental Health
- OBGYN
- Pain
- Pulmonary
- Pediatric
- Neurology
- Renal
- Precision genomics
- Gastroenterology
- Bone marrow transplant

Percentage of Health-systems/clinics with pharmacist FTE devoted to area
Community Pharmacists’ Services Provided

- Medication therapy management: 80%
- Immunizations: 80%
- Diabetes education: 70%
- Point of care testing: 30%
- Tobacco cessation management: 20%
- Preventive care: 20%
- Chronic disease state management: 10%
- Travel medicine/vaccines: 10%
- Specialty disease state management: 0%
Spotlight: Community Health Network

Over 35 pharmacists embedded in physician clinics across central Indiana

Pharmacists manage a variety of chronic conditions
- Diabetes, hypertension, asthma/COPD, tobacco cessation, & osteoporosis

Evaluated care for patients with diabetes
- Analyzed patients managed by pharmacists data prior to and during pandemic
- Patients with hemoglobin A1c greater than 9% referred to pharmacist
Spotlight: Community Health Network

Average Hemoglobin A1c

Hemoglobin A1c

- Pharmacist care pre-pandemic
  - A1c at Baseline: 11.1%
  - A1c Three Months Later: 8.3%

- Pharmacist during pandemic (virtual)
  - A1c at Baseline: 11.4%
  - A1c Three Months Later: 7.9%

Data provided by Community Health Network
Spotlight: Community Health Network

Medication Adherence Project

- Team focused on medication adherence to hypertension, diabetes, and statin medications
  - Works with Medicare Advantage plans

<table>
<thead>
<tr>
<th>Measure</th>
<th>Increase Proportion of Days Covered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hypertension medication adherence</td>
<td>3.47%</td>
</tr>
<tr>
<td>Diabetes medication adherence</td>
<td>7.13%</td>
</tr>
<tr>
<td>Statin adherence</td>
<td>5.88%</td>
</tr>
</tbody>
</table>

Increase by 10 stars across three contracts

Data provided by Community Health Network
Spotlight: St. Joseph Regional Medical Center

**Hypertension Initiative** (Patient seen by physician and then referred to pharmacy services)

- Completed in 2019, patients in the family medicine center and family medicine faculty physicians

<table>
<thead>
<tr>
<th>Systolic BP Change</th>
<th>Diastolic BP Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>-29 mmHg</td>
<td>-12 mmHg</td>
</tr>
</tbody>
</table>

**Smoking Cessation Initiative** (Pharmacist follow up & 1-800 Quit Now Referral)

<table>
<thead>
<tr>
<th>Cigarettes per day change</th>
<th>Successful cessation by 6 months</th>
</tr>
</thead>
<tbody>
<tr>
<td>-4</td>
<td>13.3%</td>
</tr>
</tbody>
</table>

Data provided by St. Joseph Regional Medical Center
Transitions of Care Initiative

<table>
<thead>
<tr>
<th>Admission diagnosis</th>
<th>Average No. of patients/month</th>
<th>Readmitted prior to PharmD intervention</th>
<th>Readmitted after PharmD intervention</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sepsis</td>
<td>26</td>
<td>26.6%</td>
<td>15.5%</td>
</tr>
<tr>
<td>Pneumonia</td>
<td>29</td>
<td>27.9%</td>
<td>14.7%</td>
</tr>
<tr>
<td>CHF</td>
<td>19</td>
<td>33.6%</td>
<td>6.3%</td>
</tr>
<tr>
<td>COPD</td>
<td>15</td>
<td>34.4%</td>
<td>10.3%</td>
</tr>
<tr>
<td>Renal</td>
<td>12</td>
<td>34.6%</td>
<td>21.4%</td>
</tr>
</tbody>
</table>

Readmission dollars saved: $335,280.29/month (one quarter)

**HPV immunization initiative:** (PharmD screening & education)
- Family medicine center vaccination rates increased by 13%
Spotlight: IU Health Bloomington

**Diabetes**
- Average hemoglobin A1c reduction: -2.2%
- Less frequent physician visits after pharmacists’ interventions

**Hypertension**
- 68% of patients seen by a pharmacist met blood pressure goal in less than 6 months

**Transitions of care**
- Over 1200 patients required medication intervention after discharge to prevent complications or potential readmission

Data provided by IU Health Bloomington
Spotlight: HealthLinc

Focus on diabetes management
- Patients with hemoglobin A1c >9%

Prior to pharmacist intervention:
54.3% of patients had an A1c >9%

After pharmacist intervention:
28.9% of patients had an A1c >9%

Data provided by HealthLinc
Spotlight: Topeka Pharmacy

Community pharmacy serving rural Topeka, IN and Lagrange, Noble, and Elkhart counties.

Diabetes Education Program serving patients with limited access to diabetes care from other providers

<table>
<thead>
<tr>
<th>Year</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
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<tbody>
<tr>
<td>Number of Patients Seen</td>
<td>42</td>
<td>32</td>
<td>36</td>
</tr>
<tr>
<td>HgbA1c Change</td>
<td>-2.69%</td>
<td>-2.7%</td>
<td>-2.24%</td>
</tr>
<tr>
<td>Weight Change</td>
<td>-9.4 lbs</td>
<td>-6.4 lbs</td>
<td>-6.8 lbs</td>
</tr>
<tr>
<td>BMI Change</td>
<td>-1.55</td>
<td>-1.03</td>
<td>-1.18</td>
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These results are achieved in **four** billable hours

Data provided by Topeka Pharmacy
Spotlight: CPESN Indiana

43 independent Community Pharmacies within the state dedicated to providing Enhanced Services Networks to patients and employers

A cohort of 19 of these pharmacies is currently involved in a Flip the Pharmacy campaign, under which they are documenting interventions:

- Comprehensive medication reviews
- Blood pressure screenings
- Immunization reviews and administration
- Diabetes management interventions
- Smoking cessation consultations, and many other services
Spotlight: CPESN Flip the Pharmacy

October 1st, 2020 – April 26th, 2021: 19 pharmacies involved in *Flip the Pharmacy* documented **7,322 interventions** completing services beyond prescription dispensing

- This in addition to providing COVID-19 vaccines to tens of thousands of Hoosiers
- These services demonstrate the opportunity within community pharmacy practice but are not being reimbursed by payers at this time.
Indiana Pharmacists are essential providers of the healthcare team.

Indiana Pharmacists offer impactful patient care services.

Indiana Pharmacists improve healthcare outcomes and reduce costs.