









### Growth of The CLIA-waived and Home Testing Markets

- Testing is not an endpoint, rather it is a means to expand access to care.
  - Patients do not want to get tested, they want to get better and feel heard.
  - Patients want to make decisions that:
    - Improve efficiency of their care
    - Increase convenience of their care
    - Reduce the cost of their care

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# **Patient Assessment**

- Assessment is critical to develop a care plan.
  - Symptoms
  - Vital signs
  - Medical history
  - Medication history
  - Immunization history
  - Social and travel histories

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# **Protocols and Collaborative Practice Agreements**

- Collaborative Practice Agreement (CPA)
  - A formal practice relationship between pharmacists and prescriber(s).
  - $\circ$  Allow for the delegation of various prescriber functions to the pharmacist.
  - State may allow for patient-specific CPA's or population CPA's
    - Patient-specific CPA's require an existing relationship between the patient and the prescriber that signs the CPA.
    - Population-level CPA's allow a prescriber to sign a CPA that authorizes the pharmacist to provide care to individuals that do not have an existing relationship with the prescriber.

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# **Protocols and Collaborative Practice Agreements**

• Protocols

 A framework that specifies the conditions under which pharmacists are authorized to prescribe a medication or order a tests when providing a clinical service.

 Issued by an authorized state body pursuant to relevant state laws and regulations. Each protocol specifies the qualifications required for pharmacists to implement the protocol and the procedure(s) that must be followed.



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### Components of a Successful Disease Management Program

- Means to provide follow-up care
- Identify suitable CLIA-waived POC tests
- Trained personnel
  - NASPA POC certificate program for pharmacists
  - Tests are only a component of a disease management program
- Plan for patient follow-up
- Data sharing plan
- Good business plan

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# Collaborative Influenza Disease State Management Program

	n/N (%)
Total Number of Patients Screened	121
Excluded from participation	45//121 (37.2%)
Eligible for participation	76/121 (62.8%
Patients Tested for Influenza	
Did not have a primary care provider	26/75 (34.6%)
<ul> <li>Seen outside of regular clinic office hours</li> </ul>	29/75 (38.7%)
POC Test Result	
Positive	8/75 (10.7%)
Negative	67/75 (89.3%)
Patient Receipt of Oseltamivir	
Positive test	
<ul> <li>CPA Site</li> </ul>	5/5 (100%)
<ul> <li>Physician Call</li> </ul>	1/3 (33.3%)
Negative test	0/67 (0%)

### Collaborative Influenza Disease State Management Program

- Key findings:
  - Using a collaborative practice agreement and judicious use of an influenza POC test, pharmacists were appropriately able to identify and management patients with influenza.
  - Approximately <u>11%</u> of patients evaluated tested positive for influenza and received an antiviral.
    - Inline with national data for 2013-14.
    - Most patients received recommendations for management of symptoms.
  - No adverse clinical outcomes were noted.
  - Patient satisfaction was >92%.
  - Time and motion studies demonstrated that this model fit nicely into pharmacy workflow.

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### Collaborative GAS Pharyngitis Disease State Management Program

- Key Findings:
  - 316 patients were screened and 273 (86.3%) were eligible for participation.
  - 48 (<u>17.5%</u>) had a positive POCT result and were dispensed an antibiotic.
  - 37.3% did not identify a primary care provider.
  - 43.9% visited the pharmacy outside of established physician's office hours.

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ME Klepser, et al J Am Pharm Assoc. 2016; 56:14-2:



- GAS pharyngitis management program
  - Developed with multidisciplinary input.
  - Trained pharmacists determined a Centor score and performed a POCT, if appropriate.
    - Patients with a severe presentation were referred.
  - Antibiotics were administered if the POCT was positive.
  - Patients paid £7.50 (\$10.00) for the test.
- Key Findings:
  - 367 patients were screened and 149 were eligible for POCT.
  - 24.2% (36/149) tested positive and received antibiotics.
     9.8% of the screened population.

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9/4/23

### **Opportunities for ID-related, POCT-supported, Disease Management Programs in Pharmacies**

- Conjunctivitis
- Sexually transmitted infections
- Lyme Disease
- Respiratory infections
  - SARS-CoV-2, Influenza, RSV
- Acute pharyngitis
- Urinary tract infections
- Infectious mononucleosis
- HIV
- HCV

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### **Opportunities for ID-related, POCT-supported, Disease Management Programs in Pharmacies**

- Chronic disease management
  - More than diabetes and cholesterol.



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# Summary Pharmacy-based models of care provide convenient, evidence-based care with a patient-centered approach. The dominos are falling. More states allow for autonomous pharmacy-deleivered care.





### Assessment Question

Which of the following is essential for offering a pharmacy-based, CLIA-waived POCT-supported disease management service?

- 1. A physician collaborator
- 2. A test with high sensitivity and specificity
- 3. A plan for patient follow-up
- 4. A laboratory manager

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