

### Background

Helicobacter pylori (HP) infection has a prevalence estimat at over ~4.4 billion individuals worldwide

Clinical features range from asymptomatic to mucosaassociated lymphoid tissue lymphoma

It is important to ensure effective strategies for eradication including patient compliance and appropriate treatment courses

The **study aim** was to compare HP treatment managed by clinical pharmacist to standard care in regard to medication compliance and successful eradication

## **Methods**

A retrospective review of adult patients diagnosed and treated for HP at our center was performed between 3/2019 and 11/2021

All included individuals were then divided into 2 groups: -The pre-pharmacy group (3/2019 to 6/2020) received standard care for HP infection; -The pharmacist intervention group (7/2020 to 11/2021) had a clinical pharmacist manage treatment an document eradication or persistence of HP upon completion as the primary outcome variable

Data analyzed included: age, gender, BMI, alcohol use, drug/tobacco use, pre-treatment symptoms, diagnostic method (gastric biopsy, stool antigen, urea breath test), EGD results, pharmacologic treatment, clinic follow-up type, confirmation test type/result, post-treatment symptoms and any previous HP therapy

### Pharmacy Intervention Matters: Improving the Quality of Care of Helicobacter pylori Treatment Pooja J. Mude, Apryl Cronley, Nimisha Vasandani, Ahmad Alkaddour, Carlos Palacio, Kenneth J. Vega, John Erikson L. Yap

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# Results

ted	<b>Table 1</b> : <i>Helicobacter pylori</i> (HP) confirmation testing outcomes in the pre-pharmacy and pharmacy intervention groups after treatment.				
	HP Eradication Confirmation Test Result	Pre-Pharmacy intervention N=38	Pharmacy Intervention N=95	p value	
n	Not Done	4	23	<0.05	
	Indeterminate	0	3		
a	Successful Eradication	23	62	0 009	
'	Not Eradicated	11	7	0.000	
d : d	Pre-p The pharmacy intervention g me Interestingly, the pre-pharm phar Among patients having erac rates of successful eradic	<ul> <li>Total patients diagnosed and treated for HP: 133 Pre-pharmacy group= 38, Pharmacist intervention group= 95</li> <li>The pharmacy intervention group more frequently used a regimen of PPI, clarithromycin, amoxicillin, and metronidazole vs clarithromycin triple therapy (p=0.001)</li> <li>Interestingly, the pre-pharmacy group were more likely to complete eradication confirmation testing (pre pharmacy 34/38, 89.4% vs intervention, 73/95, 77%, p&lt;0.05)</li> <li>Among patients having eradication testing after treatment, the pharmacy intervention group had increased rates of successful eradication compared to the pre-pharmacy group (intervention, 62/69, 92.7% vs pre-pharmacy 23/34, 67.6%, p=0.009)</li> <li>Clinical and demographic factors as well as method of diagnosis, EGD findings or previous treatment were not different between groups</li> </ul>			
,	Pearls				
,	Clinical pharmacist interv	Clinical pharmacist intervention improved care of patients with HP treated at our academic center by			
	increasing eradication rates	increasing eradication rates, more appropriate selection of antibiotic regimens and improved rates of follow up for eradication confirmation testing			



- Such a model should be considered at other institutions with difficulty obtaining successful HP eradication