

The future is embedded in the present - Characterizing pharmacist interventions in an infectious diseases clinic

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INTRO:

- In 2021, Ascension Rx Specialty Pharmacy began embedding clinical pharmacists into various outpatient clinics
- The clinical pharmacist at the Ascension St. John Infectious Diseases Clinic provides a wide array of support
- This study characterizes the pharmacist interventions provided during a six-month timeframe, HIV and Hepatitis C outcomes, and pharmacy prescriptions

METHODS:

- Since September 2021, the pharmacist's interventions were consistently captured in a documentation system
- Each patient with one or more interventions were entered as one documentation event, which captured type of problem, recommendation category, intervention acceptance, and estimated time spent
- If more than one problem within the same type occurred on a patient, it could only be recorded once
- Intervention report pulled September 2021 through February 2022

RESULTS:

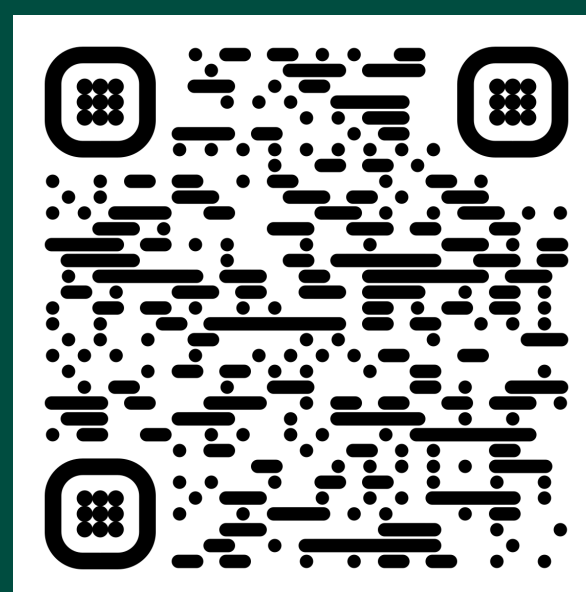
- 316 patient intervention encounters completed → 594 problem types identified → 81% patient and 90% physician acceptance → estimated 203 pharmacist hours spent
- Out of 131 HIV patients counseled, 84% with RNA < 200; out of nine Hepatitis C counseled, 89% with 12-week sustained virologic response
- Average specialty prescription per month from clinic filled at Ascension Rx Specialty in quarter pre-hire was 31; average in quarter 1 of 2022 increased to 89 (287% increase), which equated to gross margin increase of 302%

LIMITATIONS:

- Multiple interventions within the same type not captured
- Limited patient outcome and comparative data



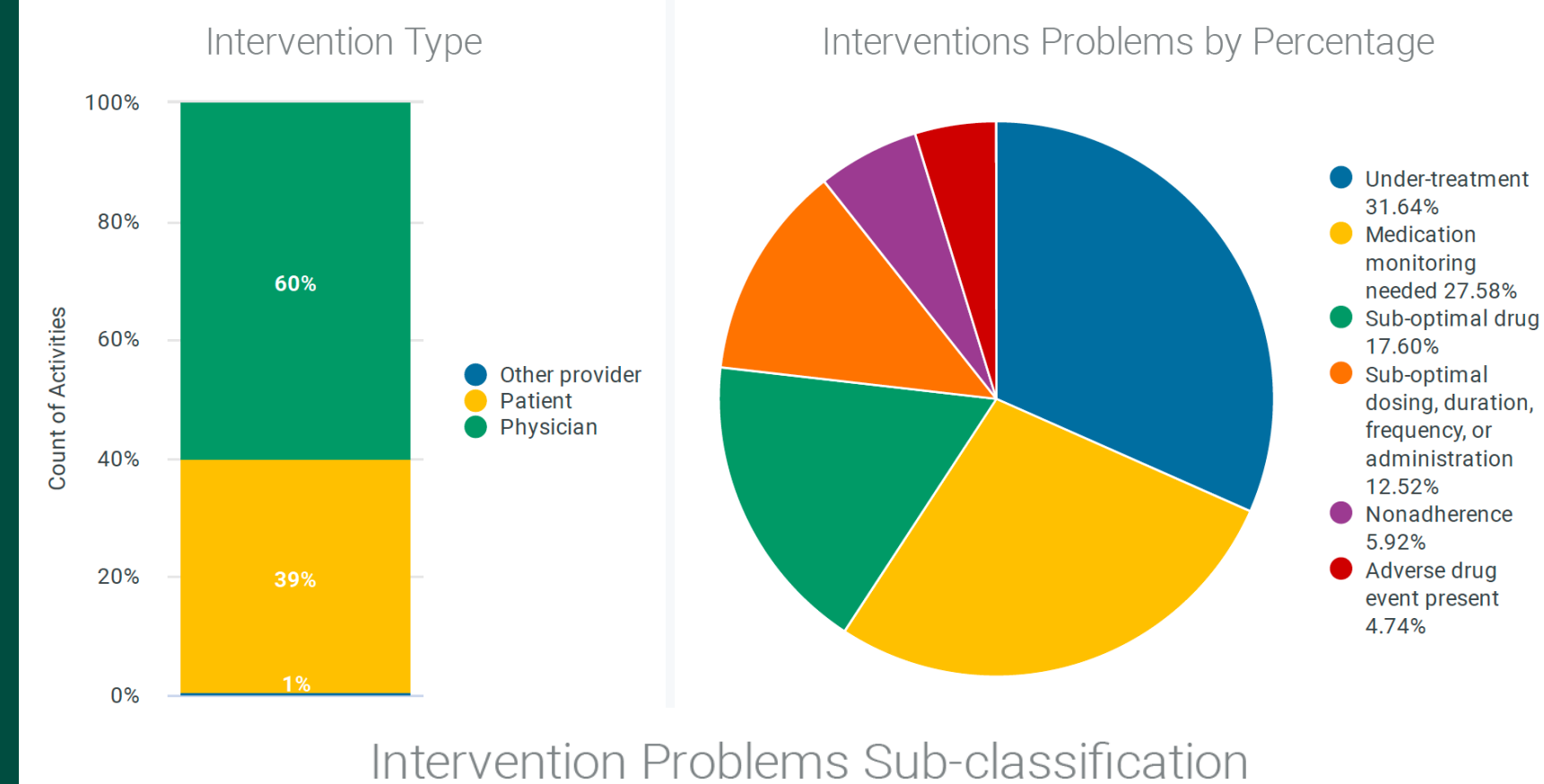
Embedding a clinical pharmacist into an infectious diseases clinic can result in optimized patient care and increased specialty pharmacy prescription capture



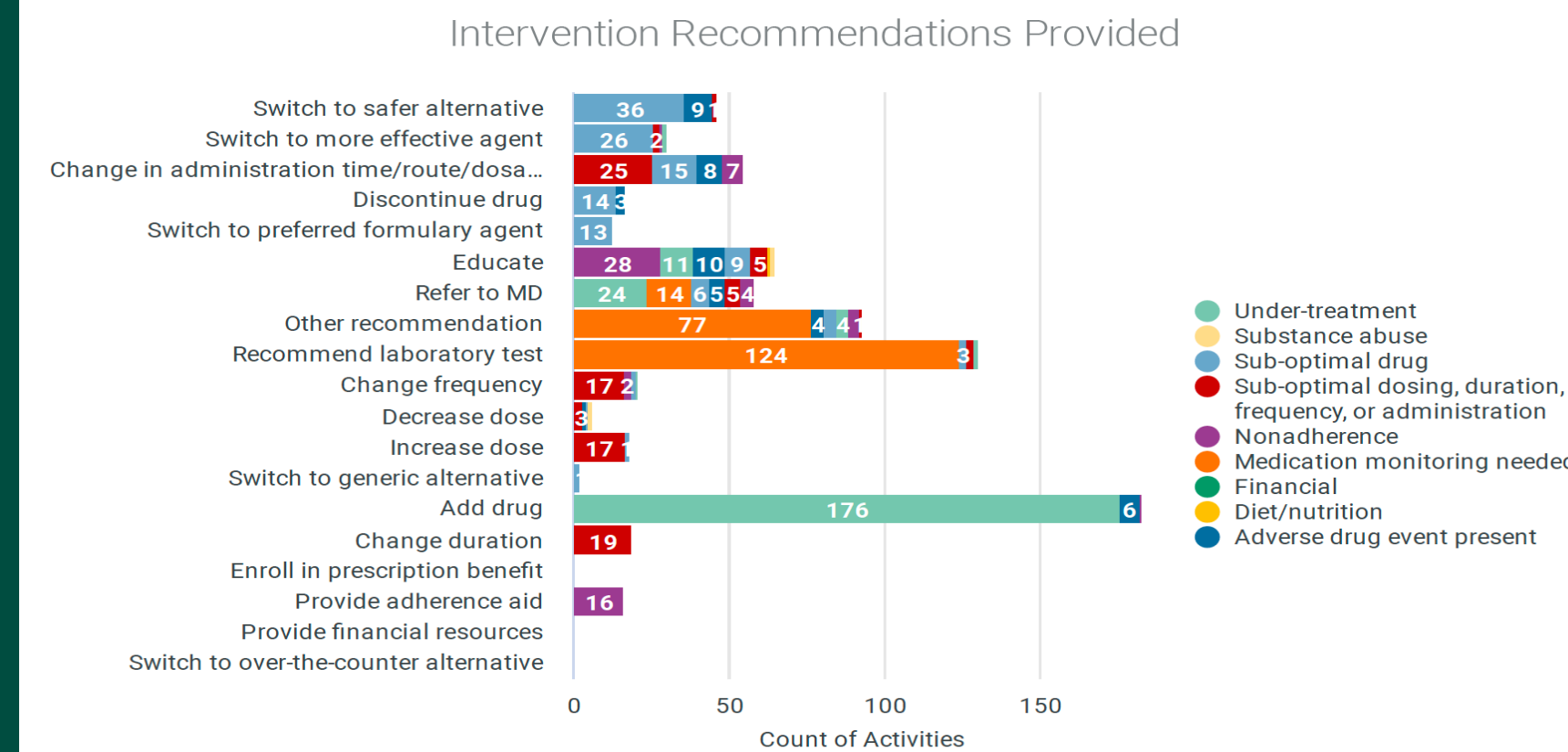
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The authors have no relevant conflicts of interest.



Intervention Problem	Sub-classification	Count of Activities ↓
1 Under-treatment	Additional therapy required	170
2 Medication monitoring needed	Monitoring needed to assess for/prevent potential adverse drug events	120
3 Medication monitoring needed	Other medication monitoring needed sub-classification	63
4 Medication monitoring needed	Monitoring needed to assess effectiveness/response to therapy	53
5 Sub-optimal drug	Potential for drug interaction	50
6 Under-treatment	Untreated medical condition	30
7 Sub-optimal dosing, duration, frequency, or administration	Administration not ideal or correct	26
8 Nonadherence	Memory/cannot remember to take medications	22
9 Sub-optimal drug	Safer alternative available	20
10 Sub-optimal drug	Not effective	19
11 Sub-optimal dosing, duration, frequency, or administration	Dose too low	18
12 Sub-optimal dosing, duration, frequency, or administration	Frequency not correct	17



Top 10 Medications Associated to Int...		Top 10 Therapeutic Categories Asso...	
Activity Medication N...	Count of Activities	Activity Therapeutic C...	Count of Activities
1 BIKTARVY	79	1 HIV	239
2 Other	56	2 General	49
3 GENVOYA	34	3 Hepatitis C	28
4 DOVATO	18	4 Hepatitis B	6
5 TRIUMEQ	18	5 Oncology	2
6 JULUCA	16		
7 ATRIPLA	13		
8 MAVYRET	12		
9 TIVICAY	11		
10 ODEFSEY	11		