Bridging the Divide—Understanding Primary Care and Specialty Care Perspectives on Chronic Disease Co-management: a National Survey



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INTRODUCTION

Specialists and primary care providers (PCP) generally manage complex chronic diseases in silos, and delineation of responsibilities is often unclear. We aimed to compare the similarities and differences in perception and practice across three complex conditions as it relates to the delineation of responsibilities, perceived roles, and communication. We also aimed to identify factors most strongly associated with a clear delineation of responsibilities, as one aspect of coordinated care.

METHODS

We conducted an online, cross-sectional 42-question survey of the American College of Physicians members, using the Internal Medicine Insider Research Panel. Eligible PCPs completed training and were active in medicine, and spent ≥ 25% of their time in direct patient care with a predominant outpatient practice. We used three case scenarios of chronic conditions with high-intensity specialty care needs with varying prevalence in primary care clinics: (1) moderate-to-severe ulcerative colitis (UC) treated with azathioprine, (2) hepatitis C–related cirrhosis and ascites, and (3) insulin-dependent diabetes. Questions focused on four domains: (1) physician roles, (2) comfort level managing disease aspects, (3) provider-provider communication, and (4) access to specialists. The complete survey was tested for face validity using a small group of PCPs.

RESULTS

The survey was completed by 323 respondents with a 55% response rate. Nearly three-quarters of PCPs feel that there is a clear delineation of responsibilities between PCPs and specialists as it relates to the care of patients with ulcerative colitis, cirrhosis, and insulin-dependent

diabetes. Perceived levels of responsibility vary by specific role and disease state and are reported in Table 1. A majority of PCPs perceived that care coordination within their practices was very (23.5%) or somewhat (55.4%) effective, though less felt, very (13.6%) or somewhat (47.4%) satisfied with the quality of communication and the quality of co-management (22.6% and 48.0%, respectively) with specialists. Telephone calls and messaging through the electronic medical record were the most common modalities of communication for providers who co-manage patients with chronic disease.

In addition, a minority of PCPs felt that specialists were very easy or somewhat easy to access; these numbers are generally similar across disease states. Perceived effectiveness of care coordination was strongly associated with clear delineation of responsibilities across disease states (Table 2). An association between a clear delineation of responsibilities and satisfaction in the quality of communication with specialists was also evident in UC care and with the quality of comanagement with specialists for both UC and cirrhosis care (Table 2).

DISCUSSION

Coordinated chronic disease care requires a clear delineation in the role between providers for the effective transfer of accurate timely clinical information, effective communication, and shared decision-making. While many perceive that a clear delineation in role exists between primary care and specialty care as it related to the treatment of complex chronic disease, this study demonstrates that we continue to see a substantial number of PCPs who do not perceive that a delineation exists. A perceived clear delineation of responsibilities seems to be a marker of effective care coordination with specialists, and satisfaction with the quality of both communication and comanagement with specialists. While a majority of providers perceive that communication is effective, a general lack of satisfaction with communication and co-management suggests there is room for improvement.

Patients with complex conditions often require comanagement, the shared management for the disease where both practices are concurrently active in the patient's care, and the specialty practice provides temporary guidance and ongoing follow-up of the patient for one specific condition. While comanagement improves outcomes in patients with chronic disease, the best methods of co-managing patients have not been

Table 1 PCP Perceptions on Roles, Comfort Level, and Access to Specialists Across Disease States

	Ulcerative colitis	Cirrhosis	Insulin-dependent diabetes
Delineation of responsibilities			
Is there a clear delineation of respon	nsibilities between you and specialist?		
Yes	234 (72.5%)	230 (71.2%)	228 (70.6%)
No	62 (19.2%)	52 (16.1%)	66 (20.4%)
Not sure	27 (8.3%)	41 (12.7%)	29 (9.0%)
Who is responsible for the primary	management of decompensation, poor d	isease control?	,
Primary care	34 (10.5%)	45 (13.9%)	40 (12.4%)
Specialist	277 (85.8%)	256 (79.3%)	268 (83.0%)
Not sure	12 (3.7%)	22 (6.8%)	15 (4.6%)
Who is responsible for the primary		(3.3.3.7)	,
Primary care	312 (96.6%)		
Specialist	4 (1.2%)		
Not sure	7 (2.2%)		
Who is responsible for the primary			
Primary care	287 (88.9%)	70 (21.7%)	
Specialist	24 (7.4%)	228 (70.6%)	
Not sure	12 (3.7%)	25 (7.7%)	
Who is responsible for the primary	management of osteoporosis/foot exam		
Primary care	313 (96.6%)	8	229 (70.9%)
Specialist	1 (0.3%)		64 (19.8%)
Not sure	9 (2.8%)		30 (9.3%)
Comfort level	,		()
How comfortable are you with actin	ng as the primary contact of care?		
Very comfortable	227 (70.3%)	164 (50.8%)	231 (71.5%)
Somewhat comfortable	83 (25.7%)	120 (37.2%)	68 (21.0%)
Neutral	7 (2.2%)	25 (7.7%)	16 (5.0%)
Somewhat uncomfortable	3 (0.9%)	11 (3.4%)	8 (2.5%)
Very uncomfortable	3 (0.9%)	3 (0.9%)	0 (0.0%)
Ease of access to specialist	(312 /3)	2 (3.3 /2)	(****,**)
Very easy	44 (13.6%)	31 (9.6%)	29 (9.0%)
Somewhat easy	122 (37.8%)	101 (31.3%)	113 (35.0%)
Neutral	55 (17.0%)	67 (20.7%)	58 (18.0%)
Somewhat difficult	81 (25.1%)	92 (28.5%)	98 (30.3%)
Very difficult	21 (6.5%)	32 (9.9%)	25 (7.7%)

determined.^{4, 5} This study's strengths include a nationally representative sample with a relatively high response rate, suggesting generalizability of these results. However, use of case examples may limit generalizability to other disease states, and survey responses are limited to the PCP perspective.

Effective coordination results from shared goals, shared insight, and mutual respect.⁶ This requires individual knowledge of interconnected roles. In this context, understanding PCPs' perceptions as to delineation of roles in co-managing patients is a first step towards understanding barriers to coordination in efforts to improve chronic disease care. This is

Table 2 Association Between Communication/Co-management and a Clear Delineation of Responsibilities Between Primary Care and Specialist

	Ulcerative colitis scenario		Cirrhosis scenario		Diabetes scenario	
	Odds ratio	95% confidence interval	Odds ratio	95% confidence interval	Odds ratio	95% confidence interval
Communication effective	ness					
Very effectively	3.20	1.27, 8.03	3.81	1.54, 9.42	3.25	1.34, 7.91
Somewhat effectively	1.92	0.87, 4.21	2.71	1.24, 5.92	2.17	1.00, 4.71
Neutral	1.22	0.45, 3.29	0.99	0.38, 2.62	2.71	0.96, 7.64
Somewhat	Omitted	Omitted	Omitted	Omitted	Omitted	Omitted
ineffectively						
Very ineffectively	Ref	Ref	Ref	Ref	Ref	Ref
Communication satisfacti	on					
Very satisfied	4.11	1.15, 14.76	2.70	0.76, 9.63	2.05	0.55, 7.56
Somewhat satisfied	2.94	1.02, 8.52	1.75	0.60, 5.15	1.20	0.39, 3.67
Neutral	1.30	0.41, 4.09	1.20	0.37, 3.90	0.91	0.27, 3.07
Somewhat dissatisfied	1.20	0.39, 3.66	0.99	0.32, 3.10	0.75	0.23, 2.44
Very dissatisfied	Ref	Ref	Ref	Ref	Ref	Ref
Co-management satisfact	ion					
Very satisfied	12.60	2.03, 78.28	7.73	1.29, 46.44	2.11	0.35, 12.71
Somewhat satisfied	6.86	1.20, 39.12	6.16	1.08, 35.05	1.22	0.22, 6.93
Neutral	2.48	0.41, 14.90	3.88	0.64, 23.54	0.81	0.13, 4.87
Somewhat dissatisfied	2.42	0.40, 14.73	2.20	0.36, 13.37	0.81	0.13, 4.97
Very dissatisfied	Ref	Ref	Ref	Ref	Ref	Ref

Omitted due to collinearity

important to PCPs as a group and to specialists who comanage these patients as we work towards improving care coordination for these complex patients.

Shirley Cohen-Mekelburg, M.D., M.S. ^{1,2,3} Jacob Kurlander, M.D., M.S. ^{1,2,3} Emma Steppe, M.S. ³ Sameer Saini, M.D., M.S. ^{1,2,3}

 ¹Division of Gastroenterology and Hepatology, University of Michigan,
3912 Taubman Center, 1500 E. Medical Center Drive, SPC 5362, Ann Arbor, MI 48109, USA
²Center for Clinical Management Research, Veterans Affairs Ann Arbor Health System,
Ann Arbor, MI, USA
³Institute for Healthcare Policy and Innovation,
Ann Arbor, MI, USA

Corresponding Author: Shirley Cohen-Mekelburg, M.D., M.S.; Division of Gastroenterology and Hepatology, University of Michigan 3912 Taubman Center, 1500 E. Medical Center Drive, SPC 5362, Ann Arbor, MI 48109, USA (e-mail: shcohen@umich.edu).

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