# ACO Awareness and Perceptions Among Specialists Versus Primary Care Physicians: a Survey of a Large Medicare Shared Savings Program



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## **BACKGROUND**

Medicare Shared Savings Program (MSSP) Accountable Care Organizations (ACOs) have achieved only modest savings. <sup>1, 2</sup> While ACO leaders and policymakers have focused on engaging primary care physicians (PCPs) to improve care coordination and reduce spending, <sup>3</sup> less attention has been devoted to the medical and surgical specialists who provide expensive services that drive Medicare spending. Moreover, few surveys have explored awareness and perceptions of physicians participating in ACOs, including the views of specialists. Therefore, we compared ACO awareness and perceptions between PCPs and specialists.

#### **METHODS**

We analyzed data from a survey administered in 2018 to clinicians in the Physician Organization of Michigan ACO,<sup>4</sup> which at the time was the largest MSSP ACO in Michigan and among the ten largest nationally. The present analysis focused on non-pediatrician physician respondents (n = 1022, 34% response rate) practicing within 10 provider organizations. Our primary exposure was whether the respondent was a PCP versus specialist (internal medicine subspecialist, surgeon, other specialist [e.g., radiologist, neurologist]). Outcomes were whether respondents knew they were in an ACO and whether they perceived that joining an ACO had influenced clinical practice, patient outcomes (e.g., health of complex patients), and professional outcomes (e.g., job satisfaction, administrative burden). We fit separate multivariable fixed-effect models to test within-provider organization associations between physician type and each study outcome, adjusting for respondent gender, age, and professional activity (patient care, teaching, research, administration/management, other). We used multiple imputation and post-stratification survey weights to address missing data and survey nonresponse, respectively. We used complete data on respondent organization, gender, and specialty to impute missing data on age (4%), professional activity (4%), and ACO awareness and perceptions (interquartile range, 1–4%).

### **RESULTS**

Physician respondents included PCPs (23%) and specialists (77%), including internal medicine subspecialists (20%), surgeons (14%), and other specialists (43%). Specialists were less likely to be aware of ACO participation and incentives (Fig. 1). Compared to PCPs, specialists were 25 percentage points ([pp]; 95% confidence interval [CI], -33 to -17) less likely to know that they were in an ACO (43% vs. 69%). In addition, specialists were 18 pp (95% CI, -26 to -10) less likely to know that their ACO was accountable for both spending and quality or that their ACO had lowered spending in the previous year (-7 pp; 95% CI, -13 to -1). Specialists were also less likely to perceive that joining an ACO had changed how they practiced medicine (-9 pp; 95% CI, -17 to -2), their compensation (-11 pp; 95% CI, -19 to -3), or whether they received useful performance feedback (-13 pp; 95% CI, -20 to -6).

Specialists were less likely to perceive that the ACO had improved patient or professional outcomes (Fig. 2), including care coordination (– 19 pp; 95% CI, – 26 to – 11), management between visits (– 15 pp; 95% CI, – 22 to – 8), medically complex patients' health (– 10 pp; 95% CI, – 17 to – 3), professional satisfaction (– 8 pp; 95%, – 13 to – 3), finances (– 7 pp; 95% CI, – 12 to – 2), staff morale (– 6 pp; 95% CI, – 10 to – 2), or administrative burden (– 5 pp; 95% CI, – 9 to – 2). In supplemental heterogeneity analyses, ACO awareness and perceptions did not systematically vary across the three specialist subgroups, with significant differences for only 3 of 23 measures (data available upon request).

# DISCUSSION

In a large survey of physicians in a single MSSP ACO, we found that participating specialists demonstrated limited awareness and perceptions regarding the ACO. Our study extends prior surveys, demonstrating that internal medicine subspecialists, surgeons, and other specialists were

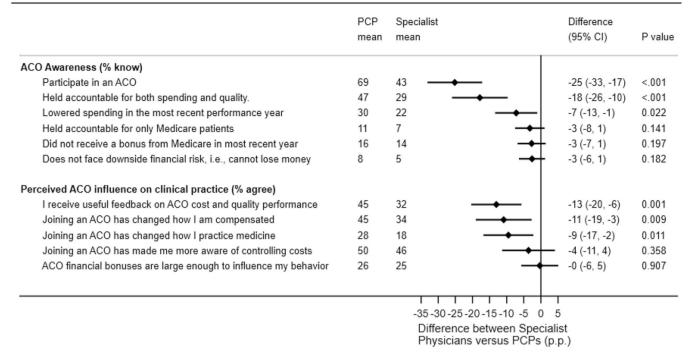


Figure 1 ACO awareness and perceived ACO influence on clinical practice. Note: ACO denotes accountable care organization. PCP denotes primary care physician. CI denotes confidence interval. PP denotes percentage point. Models are described in the "METHODS" section. Survey weights were applied to generalize to the Physician Organization of Michigan ACO. Multiple imputation was used for missing data. Estimated differences may differ from differences between PCP and specialist means due to rounding. For ACO awareness, 1, correct; 0, incorrect or do not know. For perceived ACO influence on clinical practice, 1, moderately or strongly agree; 0, moderately or strongly disagree. PCP (n = 231) was defined as General Internal Medicine, Primary Care, Geriatrics, Hospitalist, General Practice, Palliative Medicine, or Preventive Medicine. Specialist (n = 791) was defined as Internal Medicine Subspecialist (n = 185), Surgeon (n = 147), or Other Physician Specialist (n = 459) such as Radiology, Anesthesiology, and Emergency Medicine.

substantially less likely than PCPs to be aware of ACO participation or to perceive that joining an ACO had changed

clinical practice or improved patient or professional outcomes.<sup>4, 5</sup> This lack of engagement across specialists may also

	PCP mean	Specialist mean		Difference (95% CI)	P value
Perceived ACO effect on patient outcomes (% positive)					
Coordinate care across care settings	39	20 —	<b>←</b>	-19 (-26, -11)	<.001
Help patients manage care between visits	37	22 —	<b>→</b>	-15 (-22, -8)	<.001
Improve health of medically complex patients	26	16	<del></del>	-10 (-17, -3)	0.007
Engage in shared decision-making	22	16	<del></del>	-6 (-13, 0)	0.057
Improve health of low-income patients	17	14	<del></del>	-3 (-8, 3)	0.298
Reduce inappropriate or harmful care	17	14	<del></del>	-3 (-9, 4)	0.403
Decrease unnecessary hospitalizations	22	21	<del></del>	<b>-</b> -1 (-7, 5)	0.696
Perceived ACO effect on professional outcomes (% positive)					
Your professional satisfaction	19	11	<b>→</b>	-8 (-13, -3)	0.003
The financial situation of your practice or hospital as a whole	13	6	<b>→</b>	-7 (-12, -2)	0.005
Staff morale	7	1	<b>→</b>	-6 (-10, -2)	0.002
The administrative burden on your practice or hospital	7	1	<b>→</b>	-5 (-9, -2)	0.005
Your autonomy as a clinician	5	2	<b>→</b>	-3 (-6, 0)	0.053
				1	
		-25 -20	0 -15 -10 -5 0	5	
			ence between Specia	alist	
		Physicians versus PCPs (p.p.)			

Figure 2 Perceived ACO effect on patient and professional outcomes. Note: ACO denotes accountable care organization. PCP denotes primary care physician. CI denotes confidence interval. PP denotes percentage point. Models are described in the main text. Survey weights were applied to generalize to the Physician Organization of Michigan ACO. Multiple imputation was used for missing data. Estimated differences may differ from differences between PCP and specialist means due to rounding. For perceived ACO effect on patient and professional outcomes, 1, positive impact; 0, no impact, negative impact, or do not know.

help to explain ACOs' modest impact on spending and quality. The generalizability of our findings is limited by data from a single large MSSP ACO. Response bias is possible given the moderate response rate, though this appears unlikely given respondents' limited awareness or opinions. These limitations notwithstanding, our study suggests a pressing need for ACOs to engage both PCPs and specialists in care redesign. Further research is needed to determine the most effective strategies for accomplishing this.

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#### Compliance with Ethical Standards:

**Conflict of Interest:** Dr. Peterson serves as ACO Executive for the Physician Organization of Michigan ACO and receives partial salary support for this position. Dr. Norton and Dr. Rozier have no relevant disclosures. The remaining author disclosures are listed in the "Funding" statement.

**Role of the Funder/Sponsor:** The funding organizations had no role in the design and conduct of the study; collection, management, analysis, and interpretation of the data; preparation, review, or approval of the manuscript; and decision to submit the manuscript for publication.

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