

**Supplementary materials for:**

Morton S, Shih SC, Winther C, Tinoco A, Kessler R, Scholle SH. Health IT-enabled care coordination: a national survey of patient-centered medical home clinicians. *Ann Fam Med*. 2015;13(3):250-256.

**APPENDIX Table 1: Characteristics of Participating Practices by Practice Type (N=350)**

Characteristic					
	All Practices, % (N=350)	Community Health Center, % (N=91)	Health System-owned Practice, % (N=92)	Physician-owned, < 5 FTE clinicians, % (N=88)	Physician-owned, ≥ 5 FTE clinicians, % (N=79)
PCMH level: Level 3	76.9	61.5	83.7	81.8	81.0
Financial concern: very concerned (N=345)	34.2	27.8	28.9	47.1	33.3
EHR system vendor (N=343)					
eClinicalWorks	20.7	29.2	10.2	18.4	25.3
Allscripts	14.6	4.5	12.5	26.4	15.2
NextGen	14.0	25.8	13.6	1.1	15.2
Epic	13.4	3.4	45.5	1.1	2.5
GE/Centricity	7.0	12.4	5.7	2.3	7.6
Other	30.3	24.7	12.5	50.6	34.2
Have a non-clinician in charge of care coordination	58.3	60.4	55.4	55.7	62.0
Demonstration/pilot project participation and PCMH payment					
Both	46.0	31.9	47.8	51.1	54.4
Demonstration/pilot project <i>only</i>	16.6	26.4	21.7	13.6	2.5
Payment for PCMH <i>only</i>	17.1	12.1	8.7	19.3	30.4
Neither	20.3	29.7	21.7	15.9	12.7
Type of Area					
Urban	28.3	46.2	31.5	14.8	19.0
Suburban	45.1	15.4	51.1	55.7	60.8

<b>Characteristic</b>					
	<b>All Practices, % (N=350)</b>	<b>Community Health Center, % (N=91)</b>	<b>Health System-owned Practice, % (N=92)</b>	<b>Physician-owned, &lt; 5 FTE clinicians, % (N=88)</b>	<b>Physician-owned, ≥ 5 FTE clinicians, % (N=79)</b>
Rural	26.6	38.5	17.4	29.5	20.3
Received consultation/collaboration help for care coordination (N=336)	76.5	59.8	77.5	84.2	85.9
<b>Characteristic</b>	<b>Mean (SD)</b>				
Priority for Care Coordination score <sup>a</sup>	6.7 (2.2)	6.4 (2.2)	6.8 (2.3)	7.0 (2.1)	6.7 (2.1)
Priority for Implementing Meaningful Use score <sup>a</sup>	7.5 (2.0)	7.8 (1.6)	7.4 (2.0)	7.2 (2.5)	7.9 (1.7)
Change Process Capability Questionnaire - Strategies scale score <sup>b</sup>	10.2 (3.9)	9.5 (4.0)	10.2 (4.1)	10.0 (3.4)	11.1 (3.9)

EHR = electronic health record; FTE = full-time equivalent; GE = General Electric; PCMH = patient-centered medical home.

<sup>a</sup> On a scale of 0 to 10 points. Higher scores indicate greater perceived priority.

<sup>b</sup> On a scale of 0 to 17 points. Higher scores indicate greater capability to undertake change.

**Appendix Table 2. Routine Performance of Care Coordination Activities in Practices, by Practice Type (N=350)**

Care Coordination Activity	All Practices, % (N=350)		Community Health Center, % (N=91)		Health System-owned Practice, % (N=92)		Physician-owned, < 5 FTE clinicians, % (N=88)		Physician-owned, ≥ 5 FTE clinicians, % (N=79)	
	Routinely Perform Activity	Routinely Use Health IT to Perform Activity	Routinely Perform Activity	Routinely Use Health IT to Perform Activity	Routinely Perform Activity	Routinely Use Health IT to Perform Activity	Routinely Perform Activity	Routinely Use Health IT to Perform Activity	Routinely Perform Activity	Routinely Use Health IT to Perform Activity
1. Provide patients with clinical summaries of their visits	81.4	76.6	82.4	76.9	85.9	81.5	83.0	77.3	73.4	69.6
2. Send referral requests to other clinicians	92.3	68.6	94.5	73.6	89.1	68.5	90.9	63.6	94.9	68.4
3. Provide a comprehensive medical summary for each site transition or referral	69.4	45.4	71.4	36.3	55.4	40.2	75.0	54.6	77.2	51.9
4. Respond to requests for additional information from clinician receiving referral	90.0	54.0	86.8	45.1	85.9	50.0	97.7	62.5	89.9	59.5
5. Track urgent referrals until results or report come back	68.6 <sup>a</sup>		72.5		51.1		77.3		74.7	
Track non-urgent referrals until results or report come back	57.4		61.5		45.7		64.8		58.2	
Track referrals		51.7		61.5		39.1		54.6		51.9

Care Coordination Activity	All Practices, % (N=350)		Community Health Center, % (N=91)		Health System-owned Practice, % (N=92)		Physician-owned, < 5 FTE clinicians, % (N=88)		Physician-owned, ≥ 5 FTE clinicians, % (N=79)	
	Routinely Perform Activity	Routinely Use Health IT to Perform Activity	Routinely Perform Activity	Routinely Use Health IT to Perform Activity	Routinely Perform Activity	Routinely Use Health IT to Perform Activity	Routinely Perform Activity	Routinely Use Health IT to Perform Activity	Routinely Perform Activity	Routinely Use Health IT to Perform Activity
6. Provider receiving referral provides referral results to the requesting provider	82.0	53.4 <sup>a</sup>	72.5	37.4	81.5	55.4	87.5	56.8	87.3	65.8
7. Provide reminders for guideline-based interventions or screening tests to clinicians at the point of care	74.3	64.9	69.2	60.4	77.2	66.3	76.1	65.9	74.7	67.1
8. Identify patients who have had an emergency department visit	63.1	39.4	51.7	33.0	66.3	43.5	70.5	43.2	64.6	38.0
9. Identify patients who have had a hospital admission/ discharge	75.4 <sup>a</sup>	48.9	56.0	38.5	79.4	54.4	87.5	55.7	79.8	46.8
10. Have a system for remote access to patient's medical record	n/a	80.9	n/a	74.7	n/a	89.1	n/a	76.1	n/a	83.5

IT = information technology (computerized system/electronic health record system); n/a = not applicable.

<sup>a</sup> Significant difference seen across practice types at p<.003 (Bonferroni adjustment for 20 comparisons)

**APPENDIX Table 3. Importance of Health IT Capabilities for Improving Care Coordination Related to Originally Proposed Stage 3 Meaningful Use Objectives**

<b>Practices Rating Capability as “Very Important,”<sup>a</sup> %</b>	<b>All Practices (N=350)</b>	<b>Community Health Center (N=91)</b>	<b>Health System-owned Practice (N=92)</b>	<b>Physician-owned, &lt; 5 FTE clinicians (N=88)</b>	<b>Physician-owned, ≥ 5 FTE clinicians (N=79)</b>
Provide patients with clinical summaries of their visits (N=346)	47.7	56.0	45.1	46.0	42.9
Use computerized provider order entry for referrals/transition of care orders (N=346)	45.4	49.5	48.4	37.9	45.5
Provide a Summary of Care record for each site transition or referral (N=343)	42.3	49.5	34.4	45.9	39.0
Provider receiving referral acknowledges receipt of external information (N=343)	32.9	39.6	28.4	33.3	29.9
Provider receiving referral provides referral results to the requesting provider (N=345)	69.6	73.6	68.9	64.8	71.1
Generate lists of patients for multiple specific conditions (N=346)	53.8	56.0	50.5	53.4	55.3
Present near real-time patient-oriented dashboards for patients with multiple specific conditions (N=339)	40.1	40.4	40.4	39.5	40.0
Having electronic notification of a visit of the following type:					
Patients’ arrival at an emergency department (N=345)	42.9	41.1	39.3	56.3	34.2
Patients’ discharge from an emergency department (N=344)	59.0	58.9	61.8	59.3	55.7
Patients’ admission to a hospital (N=345)	66.4	63.7	64.8	71.3	65.8

<b>Practices Rating Capability as “Very Important,”<sup>a</sup> %</b>	<b>All Practices (N=350)</b>	<b>Community Health Center (N=91)</b>	<b>Health System- owned Practice (N=92)</b>	<b>Physician- owned, &lt; 5 FTE clinicians (N=88)</b>	<b>Physician- owned, ≥ 5 FTE clinicians (N=79)</b>
Patients’ discharge from a hospital (N=346)	77.5	76.9	78.7	73.6	81.0
Patients’ death (N=345)	73.0	73.6	73.0	74.4	70.9

IT = information technology (computerized system/electronic health record system)

<sup>a</sup> Rating of 5 on a scale of 1 to 5.