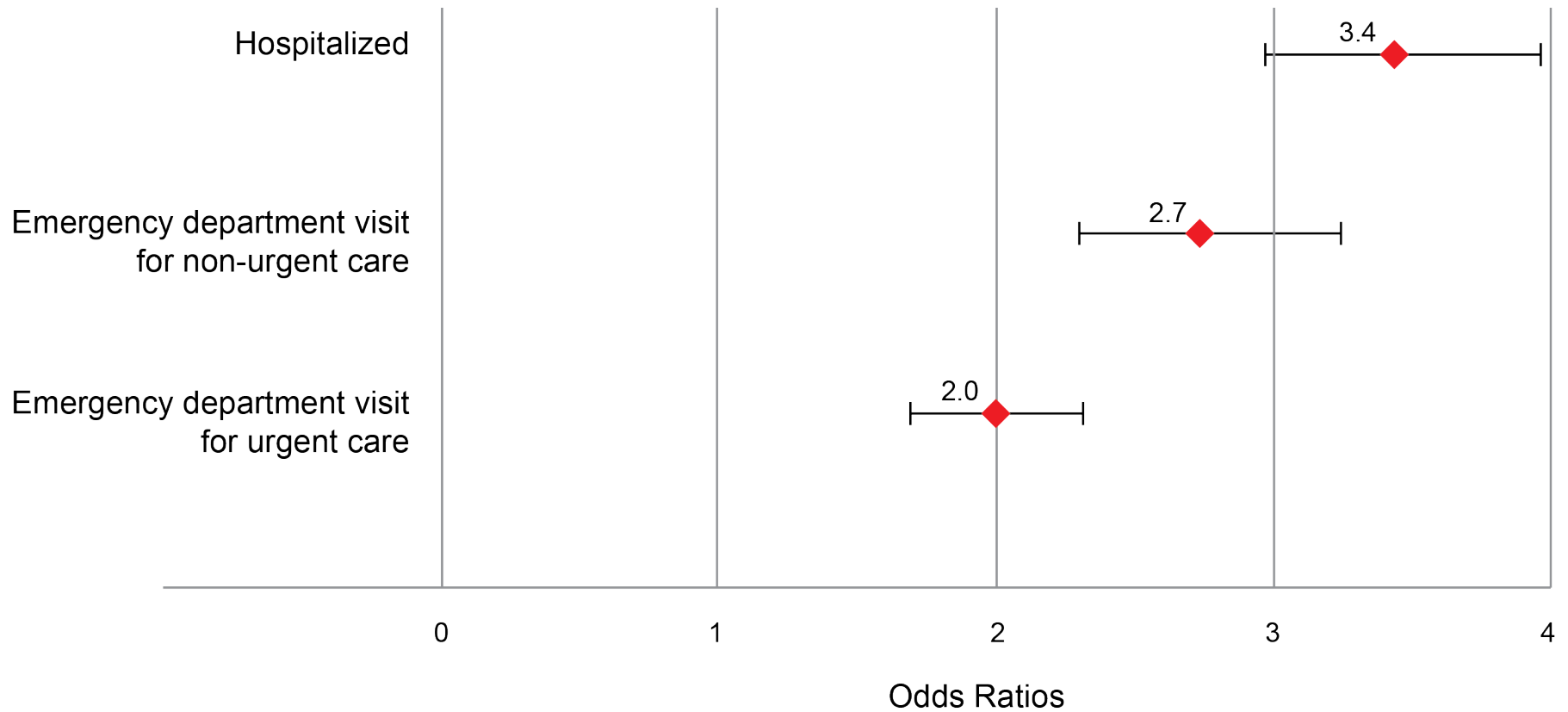


Supplemental materials for:

Penm J, MacKinnon N, Strakowski S, Ying J, Doty M. Minding the gap: perceived factors associated with primary care coordination of adults in 11 countries. *Ann Fam Med*. 2017;15(2):113-119.

Appendices

Appendix 1. Odds ratio of *poor primary care coordination* with patient outcomes.*

**Poor primary care coordination* was defined as having at least three gaps from five questions.

Appendix 2. Distribution of respondents by country, social-economic demographics, and health related characteristics*

Characteristics		Total number of responses (%)	Number of respondents with <i>poor primary care coordination (%)</i> [†]	Number of US respondents with <i>poor primary care coordination (%)</i> [†]
		N=13,958	N=724	N=137
Country				
Australia		1623 (11.6)	68 (9.4)	NA
Canada		3787 (27.1)	174 (24.0)	NA
France		984 (7.0)	61 (8.4)	NA
Germany		777 (5.6)	60 (8.3)	NA
Netherlands		774 (5.5)	18 (2.5)	NA
New Zealand		715 (5.1)	27 (3.7)	NA

Norway	683 (4.9)	33 (4.6)	NA
Sweden	1215 (8.7)	57 (7.9)	NA
Switzerland	1229 (8.8)	71 (9.8)	NA
United Kingdom	776 (5.6)	18 (2.5)	NA
US	1395 (10.0)	137 (18.9)	137 (100.0)
Age			
18-24	1123 (8.0)	48 (6.6)	7 (5.1)
25-34	1735 (12.4)	84 (11.6)	19 (13.9)
35-49	3339 (23.9)	202 (27.9)	33 (24.1)
50-64	4107 (29.4)	231 (31.9)	45 (32.8)
65+	3654 (26.2)	159 (22.0)	33 (24.1)
Gender			

Male	6242 (44.7)	276 (38.1)	40 (29.2)
Female	7716 (55.3)	448 (61.9)	97 (70.8)
Household income			
Above average	3944 (28.3)	154 (21.3)	22 (16.1)
Average	3195 (22.9)	132 (18.2)	21 (15.3)
Below average	5328 (38.2)	373 (51.5)	84 (61.3)
Missing	1491 (10.7)	65 (9.0)	10 (7.3)
Number of doctors seen in the last year			
No doctor	1994 (14.3)	30 (4.1)	4 (2.9)
1 doctor	4109 (29.4)	77 (10.6)	12 (8.8)
2 to 3 doctors	5872 (42.1)	347 (47.9)	59 (43.1)
4 or more doctors	1677 (12.0)	249 (34.4)	59 (43.1)

Missing	306 (2.2)	21 (2.9)	3 (2.2)
Health status			
Fair or poor	2184 (15.6)	272 (37.6)	60 (43.8)
Good, very good or excellent	11743 (84.1)	452 (62.4)	77 (56.2)
Missing	31 (0.2)	0 (0.0)	0 (0.0)
Number of medications			
No medicine	5638 (40.4)	189 (26.1)	21 (15.3)
1 to 4 medicines	5984 (42.9)	320 (44.2)	54 (39.4)
5 or more medicines	1939 (13.9)	194 (26.8)	59 (43.1)
Missing	397 (2.8)	21 (2.9)	3 (2.2)
Number of chronic conditions			
No chronic conditions	5479 (39.3)	144 (19.9)	10 (7.3)

1 chronic condition	3383 (24.2)	158 (21.8)	25 (18.2)
2 to 4 chronic conditions	4220 (30.2)	319 (44.1)	66 (48.2)
5 or more chronic conditions	474 (3.4)	73 (10.1)	30 (21.9)
Missing	402 (2.9)	30 (4.1)	6 (4.4)
<i>Regular doctor experiences</i>			
Regular doctor often or always knows your medical history	11332 (81.2)	488 (67.4)	93 (67.9)
Regular doctor often or always spends enough time with you	11338 (81.2)	473 (65.3)	83 (60.6)
Regular doctor often or always involves you as much as you want	11355 (81.4)	494 (68.2)	91 (66.4)
Regular doctor often or always explains things well	12165 (87.2)	511 (70.6)	86 (62.8)

US respondents only – Insurance		N=1,395	N=137	
	No insurance	141 (10.1)	14 (10.2)	14 (10.2)
	Private	634 (45.4)	57 (41.6)	57 (41.6)
	Medicare	433 (31.0)	32 (23.4)	32 (23.4)
	Medicaid	180 (12.9)	34 (24.8)	34 (24.8)
	Missing	7 (0.5)	0 (0.0)	0 (0.0)
Non- US respondents only – Insurance		N=12,563	N=587	
	Public insurance only	6144 (48.9)	295 (50.3)	NA
	Public insurance + additional insurance	6218 (49.5)	283 (48.2)	NA
	Missing	201 (1.6)	9 (1.5)	NA

*NA = Not applicable, US=United States

†*Poor primary care coordination* was defined as having at least three gaps from five questions.

Appendix 3. Odds ratio of *poor primary care coordination* and individual care coordination gaps*

Characteristics (n=13,958)		<i>Poor primary care coordination</i> [†]	Test/records not available at scheduled appointment	Conflicting information received for medical care	Unnecessary test ordered as it had already been done	Specialist not informed by PCP	PCP not informed by specialist
		OR (95% CI)					
Country							
	Australia	0.5 (0.4 – 0.7)‡	0.5 (0.4 – 0.6)‡	0.9 (0.7 – 1.1)	0.6 (0.5 – 0.7)‡	0.6 (0.5 – 0.8)‡	0.6 (0.5 – 0.8)‡
	Canada	0.5 (0.4 – 0.6)‡	0.6 (0.5 – 0.8)‡	0.7 (0.6 – 0.9)‡	0.4 (0.3 – 0.5)‡	0.8 (0.6 – 1.0)	0.9 (0.7 – 1.1)
	France	0.6 (0.4 – 0.8)‡	0.6 (0.4 – 0.7)‡	0.7 (0.5 – 0.8)‡	0.8 (0.6 – 1.0)	0.9 (0.7 – 1.2)	1.2 (1.0 – 1.5)
	Germany	0.5 (0.4 – 0.8)‡	0.4 (0.3 – 0.5)‡	0.9 (0.7 – 1.2)	1.0 (0.8 – 1.3)	1.0 (0.8 – 1.4)	2.6 (2.0 – 3.3)‡
	Netherlands	0.3 (0.2 – 0.5)‡	0.8 (0.6 – 1.1)	1.6 (1.2 – 2.0)‡	1.3 (1.0 – 1.7)	0.4 (0.2 – 0.5)‡	0.3 (0.2 – 0.4)‡
	New Zealand	0.5 (0.3 – 0.8)‡	0.5 (0.4 – 0.7)‡	1.0 (0.8 – 1.3)	0.5 (0.3 – 0.6)‡	0.6 (0.4 – 0.8)‡	0.7 (0.5 – 1.0)

	Norway	0.5 (0.3 – 0.7)‡	0.3 (0.3 – 0.5)‡	0.9 (0.7 – 1.2)	0.5 (0.4 – 0.7)‡	0.7 (0.5 – 1.0)	1.3 (1.0 – 1.6)
	Sweden	0.5 (0.3 – 0.6)‡	0.6 (0.5 – 0.7)‡	0.8 (0.6 – 1.0)	0.2 (0.2 – 0.3)‡	0.8 (0.7 – 1.1)	1.3 (1.0 – 1.6)
	Switzerland	0.8 (0.6 – 1.1)	0.6 (0.5 – 0.8)‡	0.8 (0.6 – 1.0)	1.7 (1.3 – 2.1)‡	1.3 (1.0 – 1.7)	0.9 (0.7 – 1.1)
	United Kingdom	0.3 (0.2 – 0.5)‡	0.5 (0.4 – 0.7)‡	0.4 (0.3 – 0.5)‡	0.5 (0.3 – 0.7)‡	0.6 (0.4 – 1.0)	0.5 (0.3 – 0.7)‡
	United States	Reference	Reference	Reference	Reference	Reference	Reference
Age							
	18-24	1.9 (1.4 – 2.7)‡	1.9 (1.5 – 2.4)‡	3.1 (2.5 – 3.8)‡	2.4 (1.8 – 3.0)‡	1.1 (0.8 – 1.4)	1.3 (1.0 – 1.5)
	25-34	2.3 (1.7 – 3.0)‡	2.2 (1.8 – 2.8)‡	3.0 (2.4 – 3.6)‡	2.0 (1.6 – 2.5)‡	1.3 (1.0 – 1.6)	1.2 (1.0 – 1.5)
	35-49	2.2 (1.7 – 2.7)‡	2.3 (1.9 – 2.8)‡	2.6 (2.2 – 3.1)‡	1.9 (1.6 – 2.3)‡	1.2 (1.0 – 1.4)	1.2 (1.1 – 1.5)‡
	50-64	1.6 (1.2 – 2.0)‡	1.9 (1.6 – 2.3)‡	1.8 (1.6 – 2.1)‡	1.5 (1.3 – 1.8)‡	1.2 (1.0 – 1.4)	1.0 (0.9 – 1.2)
	65+	Reference	Reference	Reference	Reference	Reference	Reference
Gender							

Male	1.0 (0.8 – 1.1)	0.8 (0.7 – 0.9)‡	0.9 (0.8 – 0.9)‡	1.2 (1.1 – 1.4)‡	0.9 (0.8 – 1.1)	0.9 (0.8 – 0.9)‡
Female	Reference	Reference	Reference	Reference	Reference	Reference
Household income						
Below average	1.5 (1.2 – 1.9)‡	1.3 (1.1 – 1.5)‡	1.1 (1.0 – 1.2)	1.3 (1.1 – 1.5)‡	1.1 (0.9 – 1.3)	0.9 (0.8 – 1.0)
Average	1.2 (0.9 – 1.5)	1.3 (1.1 – 1.5)‡	0.9 (0.8 – 1.1)	1.0 (0.8 – 1.2)	0.9 (0.7 – 1.1)	0.7 (0.6 – 0.8)‡
Above average	Reference	Reference	Reference	Reference	Reference	Reference
Number of doctors seen in the last year						
No doctor	Reference	Reference	Reference	Reference	Reference	Reference
1 doctor	1.0 (0.7 – 1.5)	0.9 (0.7 – 1.1)	1.0 (0.8 – 1.2)	1.0 (0.8 – 1.2)	0.9 (0.7 – 1.2)	1.0 (0.8 – 1.3)
2 to 3 doctors	3.0 (2.1 – 4.3)‡	1.5 (1.2 – 1.8)‡	2.0 (1.7 – 2.4)‡	1.8 (1.5 – 2.3)‡	2.7 (2.1 – 3.4)‡	2.6 (2.1 – 3.3)‡
4 or more doctors	7.4 (5.1 – 10.7)‡	2.3 (1.8 – 2.9)‡	3.6 (3.0 – 4.4)‡	3.2 (2.5 – 4.1)‡	3.8 (2.9 – 5.0)‡	4.1 (3.2 – 5.1)‡

Health status							
	Fair or poor	1.8 (1.5 – 2.2)‡	1.6 (1.4 – 1.8)‡	1.7 (1.5 – 1.9)‡	1.4 (1.2 – 1.6)‡	1.6 (1.4 – 1.8)‡	1.4 (1.2 – 1.6)‡
	Good, very good or excellent	Reference	Reference	Reference	Reference	Reference	Reference
Number of medications							
	No medicine	Reference	Reference	Reference	Reference	Reference	Reference
	1 to 4 medicines	1.2 (1.0 – 1.4)	1.2 (1.0 – 1.3)	1.1 (1.0 – 1.3)‡	1.0 (0.9 – 1.2)	1.1 (1.0 – 1.3)	1.3 (1.1 – 1.5)‡
	5 or more medicines	1.2 (0.9 – 1.6)	1.1 (0.9 – 1.4)	1.1 (0.9 – 1.3)	1.0 (0.8 – 1.3)	1.3 (1.1 – 1.6)‡	1.4 (1.1 – 1.7)‡
Number of chronic conditions							
	No chronic	Reference	Reference	Reference	Reference	Reference	Reference

conditions							
1 chronic condition	1.4 (1.1 – 1.7)‡	1.2 (1.1 – 1.4)‡	1.4 (1.2 – 1.6)‡	1.3 (1.1 – 1.5)‡	1.2 (1.1 – 1.5)‡	1.2 (1.1 – 1.4)‡	
2 to 4 chronic conditions	2.1 (1.7 – 2.7)‡	1.6 (1.4 – 1.9)‡	1.9 (1.6 – 2.2)‡	1.9 (1.6 – 2.2)‡	1.3 (1.1 – 1.6)‡	1.4 (1.2 – 1.7)‡	
5 or more chronic conditions	2.1 (1.4 – 3.2)‡	2.5 (1.8 – 3.4)‡	1.8 (1.3 – 2.4)‡	3.0 (2.2 – 4.3)‡	1.6 (1.1 – 2.2)‡	1.7 (1.2 – 2.3)‡	
Regular doctor knows your medical history							
Often or always	0.6 (0.5 – 0.7)‡	0.7 (0.6 – 0.8)‡	0.7 (0.6 – 0.8)‡	0.6 (0.5 – 0.7)‡	0.8 (0.7 – 0.9)‡	0.8 (0.7 – 0.9)‡	
Never, rarely or sometimes	Reference	Reference	Reference	Reference	Reference	Reference	
Regular doctor spends enough time with you							

	Often or always	0.6 (0.5 – 0.8)‡	0.7 (0.6 – 0.8)‡	0.6 (0.5 – 0.6)‡	0.7 (0.6 – 0.8)‡	0.8 (0.7 – 0.9)‡	0.8 (0.7 – 0.9)‡
	Never, rarely or sometimes	Reference	Reference	Reference	Reference	Reference	Reference
Regular doctor involves you as much as you want							
	Often or always	0.6 (0.5 – 0.8)‡	0.8 (0.6 – 0.9)‡	0.7 (0.6 – 0.8)‡	0.8 (0.6 – 0.9)‡	0.9 (0.7 – 1.1)	0.8 (0.7 – 0.9)‡
	Never, rarely or sometimes	Reference	Reference	Reference	Reference	Reference	Reference
Regular doctor explains things well							
	Often or always	0.6 (0.5 – 0.7)‡	0.7 (0.6 – 0.9)‡	0.8 (0.7 – 0.9)‡	0.6 (0.5 – 0.7)‡	0.8 (0.7 – 0.9)‡	0.8 (0.6 – 0.9)‡
	Never, rarely or sometimes	Reference	Reference	Reference	Reference	Reference	Reference

*PCP=Primary Care Physician, OR=Odds Ratio, CI=Confidence Interval

†*Poor primary care coordination* was defined as having at least three gaps from five questions.

‡ $P < 0.05$ after adjusting for multiple comparisons using Bonferroni's method