Supplementary Tables

Supplementary Table 1. Average number of office visits by subgroup (4 months)

	Average number office visits, mean (SD)
Substudy A – Opt-in / Opt-out	
Letter Only (A1) (n=813)	.77 (1.01)
Letter + Lab Order (A2) (n=829)	.74 (.91)
Substudy B – Content	
Usual Care Messaging (B1+B3+B5) (n=9,828)	.69 (.91)
Behavioral Messaging (B2+B4+B6) (n=9,833)	.66 (.86)
Substudy B – Communication Mode	
Mailed Letters ((B1+B2) (n=1,897)	.66 (.86)
Patient Portal Messages (B3+B4) (n=9,498)	.70 (.89)

Supplementary Table 2. Substudy A - Screening participation by subgroup

	Letter Only N (%)	Letter + Lab Order N (%)	p-value
Patient Portal Status			
Active	120/552 (21.7)	252/547 (46.1)	<.001*
Inactive	36/261 (13.8)	105/282 (37.2)	<.001*
Sex			
Male	66/348 (19.0)	150/341 (44.0)	<.001*
Female	90/465 (19.4)	207/488 (42.4)	<.001*
Race			
White	120/638 (18.1)	284/657 (43.2)	<.001*
Black	21/106 (19.8)	40/103 (38.8)	.002*
Asian	4/21 (19.1)	7/12 (58.3)	.02
Other	4/20 (20.0)	11/29 (37.9)	.18
Unknown	7/28 (25.0)	15/28 (53.6)	.03
Ethnicity			
Hispanic	1/12 (8.3)	3/7 (42.9)	.08
Not-Hispanic	154/787 (19.6)	345/807 (42.8)	<.001*
Unknown	1/14 (7.1)	9/15 (60.0)	.03
Age			
< 58	21/190 (11.1)	65/207 (31.4)	<.001*
58-62	34/188 (18.1)	87/198 (43.9)	<.001*
63-67	52/201 (25.9)	68/165 (41.2)	.002*
≥ 68	49/234 (20.9)	137/259 (52.9)	<.001*
Income[2]			
< $50,000	19/102 (18.6)	45/108 (41.7)	<.001*
$50,000 – 99,999	86/461 (18.7)	191/442 (43.2)	<.001*
$100,000 – 149,999	47/232 (20.3)	111/263 (42.2)	<.001*
≥ $150,000	2/11 (18.2)	6/8 (75.0)	.01

** P-value of less than .05/6 = .008 considered statistically significant using Bonferroni correction to account for multiples comparisons*

[1] Missing data for 15 participants

Supplementary Table 3. Substudy B (Content type)- Screening participation by subgroup

	Usual Care Messaging N (%)	Behavioral Content Messaging N (%)	p-value
Patient Portal Status			
Active	866/5,697 (15.2)	784/5,698 (13.8)	.03
Inactive	565/4,131 (13.7)	557/4,135 (13.5)	.78
Sex			
Male	651/4,461 (14.6)	626/4,476 (14.0)	.41
Female	780/5,367 (14.5)	715/5,357 (13.4)	.08
Race			
White	1,140/7,822 (14.6)	1,051/7,869 (13.4)	.03
Black	192/1,167 (16.5)	173/1,152 (15.0)	.34
Asian	29/193 (15.0)	27/196 (13.8)	.73
Other	29/249 (11.7)	33/254 (13.0)	.65
Unknown	41/397 (10.3)	57/362 (15.8)	.03
Ethnicity			
Hispanic	77/398 (19.4)	76/406 (18.7)	.82
Not-Hispanic	1,343/9,351 (14.4)	1,241/9,357 (13.4)	.05
Unknown	11/79 (13.9)	14/70 (20.0)	.32
Age			
< 58	271/2,464 (11.0)	238/2,450 (9.7)	.14
58-62	308/2,415 (12.8)	297/2,503 (11.9)	.34
63-67	371/2,274 (16.3)	359/2,300 (15.6)	.51
≥ 68	481/2,675 (18.0)	447/2,580 (17.3)	.53
Income[2]			
< $50,000	179/1,084 (16.5)	157/1,041 (15.1)	.37
$50,000 – 99,999	891/6,413 (13.9)	841/6,320 (13.3)	.35
$100,000 – 149,999	339/2,190 (15.5)	317/2,301 (13.8)	.11
≥ $150,000	6/52 (11.5)	11/76 (14.5)	.63

** P-value of less than .05/6 = .008 considered statistically significant using Bonferroni correction to account for multiples comparisons*

[1] Missing data for 184 participants

Supplementary Table 4. Substudy B (Communication modality)- Screening participation by subgroup

	Mailed Letter N (%)	**Patient Portal Message N (%)**	**p-value**
Sex			
Male	157/843 (36.3)	608/4,159 (30.9)	.003*
Female	180/1,054 (17.1)	705/5,339 (13.2)	.001*
Race			
White	275/1,581 (17.4)	1,107/8,002 (13.3)	<.001*
Black	40/164 (24.4)	97/734 (13.2)	<.001*
Asian	2/46 (4.4)	35/182 (19.2)	.01
Other	8/42 (19.1)	30/222 (13.5)	.35
Unknown	12/64 (18.8)	44/358 (12.3)	.16
Ethnicity			
Hispanic	6/27 (22.2)	21/121 (17.4)	.55
Not-Hispanic	329/1,848 (17.8)	1,278/9,304 (13.7)	<.001*
Unknown	2/22 (9.1)	14/73 (19.2)	.27
Age			
< 58	58/443 (13.1)	233/2,312 (10.1)	.06
58-62	70/467 (15.0)	291/2,316 (12.6)	.16
63-67	85/460 (18.5)	355/2,282 (15.6)	.12
≥ 68	124/527 (23.5)	434/2,588 (16.8)	<.001*
Income[1]			
< $50,000	29/143 (20.3)	96/733 (13.1)	.03
$50,000 – 99,999	209/1,224 (17.1)	820/6,153 (13.3)	.001*
$100,000 – 149,999	93/487 (19.1)	466/2,480 (15.7)	.03
≥ $150,000	4/21 (19.1)	10/74 (13.5)	.53

** P-value of less than .05/6 = .008 considered statistically significant using Bonferroni correction to account for multiples comparisons*

[1] Missing data for 80 participants