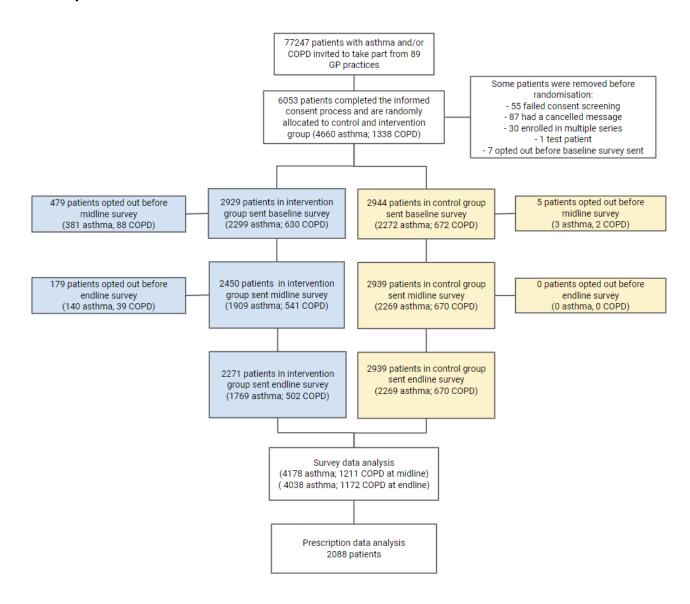
A research study to explore the impact of GP support via text messages to patients with asthma and/or chronic obstructive pulmonary disease - 10376144

Basic Results Summary, November 2023

Participant Flow



Baseline Characteristics

Table 1: Age buckets of all patients that completed the baseline survey

Age Bucket	18-24	25-34	35-44	45-54	55-64	65-74	75+
Number of							
Patients in Age							
Bucket	125	417	596	819	892	1418	808

Table 2: Age buckets of asthma patients that completed the baseline survey

Age Bucket	18-24	25-34	35-44	45-54	55-64	65-74	75+
Number of							
Patients in Age							
Bucket	125	416	585	819	1025	930	405

Table 3: Age buckets of COPD patients that completed the baseline survey

Age Bucket	18-24	25-34	35-44	45-54	55-64	65-74	75+
Number of Patients in Age Bucket	0	1	11	77	267	488	403
Бискет	U	'	11	73	207	400	403

Table 4: Gender of all patients that completed the baseline survey

Gender	Male	Female
Number of Patient's Gender	2181	3367

Table 5: Gender of all asthma patients that completed the baseline survey

Gender	Male	Female
Number of Patient's Gender	1468	2837

Table 6: Gender of all COPD patients that completed the baseline survey

Gender	Male	Female
Number of Patient's Gender	713	530

Outcome Measures

Table 7: Asthma Patients MARS5 Scores (primary outcome measures)

Control Cohort	Midline/En dline	Control Score	Treatment Score	p value	Number of control samples	Number of treatment samples
all patients	midline	21.51577	22.54489	5.16 •10 ⁻¹⁴	1871	1448
all patients	endline	21.53692	22.32799	1.25 •10 ⁻⁷	1801	1247
poorly controlled	midline	21.24836	22.1803	5.71 •10 ⁻⁶	761	599
poorly controlled	endline	21.38592	22.26602	6.44 •10 ⁻⁵	710	515

Table 8: COPD Patients MARS5 Scores (primary outcome measures)

Control Cohort	Midline/En dline	Control Score	Treatment Score	p value	Number of control samples	Number of treatment samples
all patients	midline	22.37285	23.1982	9.97 •10 ⁻⁵	582	444
all patients	endline	22.47203	22.93154	0.0404	572	409
poorly controlled	midline	22.11027	22.83178	0.0161	263	214
poorly controlled	endline	22.19368	22.77228	0.0465	253	202

Table 9: Asthma Secondary Outcomes

Outcome	Control Cohort	Midline/ Endline	Control Score	Treatment Score	p value	Number of control samples	Number of treatment samples
Asthma Control Test Score	all patients	midline	19.991	20.617	4.36 •10 ⁻⁵	1871	1448
Asthma Control Test Score	all patients	endline	20.159	20.657	0.00214	1801	1247
Asthma Control Test Score	poorly controlle d	midline	16.957	17.891	0.00016	761	599
Asthma Control Test Score	poorly controlle d	endline	17.135	18.249	3.49 •10 ⁻⁵	710	515
Proportion of	all	midline	0.011758	0.006215	0.143084	1871	1448

patients	patients						
reporting 1+ Hospital stays							
Proportion of patients reporting 1+ Hospital stays	all patients	endline	0.01055	0.008019	0.605	1801	1247
Proportion of patients reporting 1+ Emergency GP appointments	all patients	midline	0.080171	0.080801	0.998	1871	1448
Proportion of patients reporting 1+ Emergency GP appointments	all patients	endline	0.060522	0.056937	0.737	1801	1247
Proportion of patients reporting 1+ 111 calls	all patients	midline	0.025655	0.017956	0.170	1871	1448
Proportion of patients reporting 1+ 111 calls	all patients	endline	0.02332	0.018444	0.430	1801	1247
Proportion of patients reporting 1+ Urgent care visits	all patients	midline	0.019776	0.024862	0.383	1871	1448
Proportion of patients reporting 1+ Urgent care visits	all patients	endline	0.014436	0.012831	0.829	1801	1247
Proportion of patients reporting 1+ A&E visits	all patients	midline	0.018172	0.019337	0.908	1871	1448
Proportion of patients reporting 1+ A&E visits	all patients	endline	0.016102	0.013633	0.690	1801	1247

Outcome	Control Cohort	Midline/ Endline	Control Score	Treatment Score	p value	Number of control samples	Number of treatment samples
Question CAT Score	all patients	midline	19.156	19.097	0.917	582	444
Question CAT Score	all patients	endline	19.051	18.919	0.824	572	409
Question CAT Score	poorly controlle d	midline	26.281	25.505	0.19	263	214
Question CAT Score	poorly controlle d	endline	26.103	25.203	0.155	253	202
Proportion of patients reporting 1+ Hospital stays	all patients	midline	0.030928	0.047297	0.233	582	444
Proportion of patients reporting 1+ Hospital stays	all patients	endline	0.02972	0.022005	0.589	572	409
Proportion of patients reporting 1+ Emergency GP appointment s	all patients	midline	0.166667	0.146396	0.426	582	444
Proportion of patients reporting 1+ Emergency GP appointment s		endline	0.115385	0.134474	0.425	572	409
Proportion of patients reporting 1+ 111 calls	all patients	midline	0.058419	0.047297	0.520	582	444
Proportion of patients reporting 1+ 111 calls	all patients	endline	0.033217	0.056235	0.110	572	409
Proportion of patients reporting 1+	all patients	midline	0.042955	0.038288	0.830	582	444

Urgent care visits							
Proportion of patients reporting 1+ Urgent care visits	all patients	endline	0.022727	0.026895	0.836	572	409
Proportion of patients reporting 1+	all patients	midline	0.042955	0.033784	0.556	582	444
Proportion of patients reporting 1+	all patients	endline	0.034965	0.031785	0.926	572	409

Table 11: Prescription metric (secondary outcome for all patients during endline period)

Midline/Endli	Control Score	Treatment Score	p value	number control samples	num treatment samples
midline	32.44	34.23	0.0323	612	468
endline	46.27	48.94	0.0117	1503	1100

Adverse Events

There were no adverse events associated with this study.

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¹ Note that we could only pull prescriptions from medical records at the end of the study period and so the control and treatment cohort have different sample sizes since we could not pull data from opted out patients. Moreover, the prescription metric was constructed so that the midline value includes patients with a prescription interval both within 3 months before and 3 months after the start of the intervention. Whereas the endline metric was constructed with patients with a prescription interval both within 6 months before and 6 months after the start of the intervention. Consequently the endline metric has a larger sample size than the midline for this metric.