Supplementary Table 1A: Classification of FGID diagnosis by primary *ICD-10* code.

Classification	ICD-10 Code	Frequency
Upper FGID diagnoses	E13.43	1
	G43.A0	1
	G43.D0	1
	K21.0	2
	K21.00	1
	K21.9	11
	K22.4	1
	K29.50	1
	K30	31
	K31.84	37
	K31.9	3
	K92.89	1
	R10.12	1
	R10.13	4
	R11.0	4
	R11.10	1
	R11.15	41
	R11.2	17
	R12	1
	R13.10	5
	R19.8	3
	Z98.84	1
Lower FGID diagnoses	K50	1
	K52.82	1
	K58.0	31
	K58.1	33
	K58.2	10
	K58.9	6
	K59.0	1
	K59.00	11
	K59.01	4
	K59.02	2
	K59.03	4
	K59.04	6
	K59.1	3
	K59.2	1
	K60.2	1
	K62.6	1
	K63.89	1

	K91.2	1
	M62.89	3
	R10.11	2
	R10.11	1
	R10.2	1
	R10.30	3
	R10.31	3
	R10.32	1
	R10.84	1
	R10.9	10
	R14.0	2
	R19.4	3
	R19.5	3
	R19.7	5
	R27.8	1
Other GI disorder with functional pain	K50.00	1
	K50.10	1
	K50.118	1
	K50.119	2
	K50.80	3
	K50.818	1
	K50.819	2
	K51.0	1
	K51.00	2
	K51.011	1
	K51.012	1
	K51.2	1
	K51.20	1
	K51.30	1
	K51.50	2
	K51.90	1
	K52.831	1
	K85.00	1
	K86.1	2
	K90.0	1

FGID, functional gastrointestinal disorder; GI, gastrointestinal.

Supplementary Table 1B: FGID diagnoses requiring review of clinic note.

Classification by *ICD-10*	*ICD-10*	Diagnosis on chart review	Reclassification
FGID disorder not specified in primary *ICD-10* required chart review	F43.23	chronic abdominal pain	Lower FGID
	G89.4	chronic abdominal pain	Lower FGID
	K91.89	chronic abdominal pain	Lower FGID
	G54.8	IBS-C	Lower FGID
	E46	chronic abdominal pain	Lower FGID
	R52	chronic abdominal pain	Lower FGID
	K43.9	chronic abdominal pain	Lower FGID
	R19.8	chronic abdominal pain	Lower FGID
	K59.8	chronic abdominal pain	Lower FGID
	M79.2	chronic abdominal pain	Lower FGID
	F43.20	cyclic vomiting syndrome	Upper FGID

FGID, functional gastrointestinal disorder.

Supplementary Table 2: Correlation of change in GAD7 and PHQ8 score with patient interactions with RxWell and coaches

	Spearman Correlation	*P*-value
Correlations with Techniques		
GAD Pre - 1m	0.064	0.631
GAD Pre- Post (last score within 3 mo)	-0.062	0.640
PHQ Pre - 1m	0.002	0.988
PHQ Pre- Post (last score within 3 mo)	0.041	0.787
Correlations with Messages to Coach		
GAD Pre - 1m	0.057	0.670
GAD Pre- Post (last score within 3 mo)	-0.063	0.637
PHQ Pre - 1m	0.047	0.758
PHQ Pre- Post (last score within 3 mo)	0.205	0.171
Techniques vs Message Correlation		
Techniques – Coach	0.729	<0.001

Note: Spearman correlations were used due to high skewness in the distribution of the number of techniques used and in messages to coach messages.

GAD7, anxiety measure; PHQ8, depression measure.

Supplementary Table 3A: Change in GAD7 and PHQ8 scores among patients enrolled by gastroenterology providers

	Mean Change (SD)	CI	t (df)	*P*-value (2-tailed)	Cohen's d effect size
Pre-GAD7 - Post 1mo GAD7	3.1 (5.1)	(1.3, 5.0)	3.46 (31)	0.002	0.52
Pre-GAD7 to Post GAD7 (within 3 mo)	4.0 (4.8)	(2.3, 5.7)	4.72 (31)	<0.001	0.65
Pre-PHQ8-Post 1mo PHQ8	1.4 (4.3)	(-0.4, 3.2)	1.57 (24)	0.129	0.23
Pre- PHQ8 to Post PHQ8 (within 3 mo)	2.8 (4.9)	(0.8, 4.8)	2.84 (24)	0.009	0.49

CI, confidence interval; GAD7, anxiety measure; PHQ8, depression measure.

Supplementary Table 3B: Change in GAD7 and PHQ8 scores among patients enrolled by behavioral health providers

	Mean Change (SD)	CI	t (df)	*P*-value (2-tailed)	Cohen's d effect size
Pre-GAD7 - Post 1mo GAD7	2.1 (5.5)	(-0.1, 4.2)	1.98 (26)	0.059	0.39
Pre-GAD7 to Post GAD7 (within 3 mo)	1.2 (6.3)	(-1.3, 3.7)	0.97 (26)	0.34	0.22
Pre-PHQ8-Post 1mo PHQ8	0.9 (5.6)	(-1.7, 3.4)	0.70 (20)	0.49	0.15
Pre- PHQ8 to Post PHQ8 (within 3 mo)	3.0 (4.3)	(1.0, 4.9)	3.13 (20)	0.005	0.57

CI, confidence interval; GAD7, anxiety measure; PHQ8, depression measure.