## SUPPLEMENTARY MATERIAL

**Appendix 1:** Description of potential barriers and strategies prompted by the eCRD (electronic data collection form) to guide pharmacists during the provision of the intervention.

a. Potential barriers and their associated strategies targeted at non-adherent patients. These were tailored according to the patient's individual needs.

Practical barrier (Non-intentional non-adherence)	Recommended strategy to increase capacity
Lack of patient knowledge (about the prescribed medications, instructions or consequences of non-adherence)	Provide verbal and written information about the condition and the medications prescribed to treat it (e.g. what they are for and how to take them)
	Provide inhaler/spacer technique training (only for patients diagnosed with asthma or COPD)
Presence of cognitive barriers (e.g. confusion,	Prepare a medicines list
lack of attention)	Provide a Dose Administration Aid (DAA)
Presence of physical barriers (e.g. swallowing	Contact the patient's GP to suggest a simplification
difficulties, trembling, difficulties with inhaler use)	or modification of the medication regimen or
	Suggest or contact the patient's GP to recommend a DAA
Complexity of treatment (e.g. dosing regimen,	Prepare a medicines list
polypharmacy)	Provide a DAA
	Contact the patient's GP to suggest a simplification of the medication regimen
Forgetfulness (e.g. difficulty to remember to take a medication, routine changes)	Set up a medication reminder system (e.g. SMS reminders and alarms)
	Link medication taking to daily activity
	Set up a medication management app
Lack of family support	Provide self-management strategies (e.g. self- monitoring)
	Involve a family member on the medication management process
Perceptual barrier (Intentional non-adherence)	Recommended strategy to address the perceptual barrier
Wrong beliefs regarding the condition	Address wrong beliefs by educating the patient on the condition and the medications prescribed to treat it

Wrong beliefs regarding the medications prescribed:	Increase the perceived severity and susceptibility to disease by:
<ul> <li>Low perceived necessity for taking the medication</li> <li>High concerns about taking the medication</li> </ul>	<ul> <li>Explaining the severity of the disease and the reasons behind taking the medication on a regular basis</li> <li>Explain the potential risks of not taking the medications as prescribed. Explain how the medication can help to control the condition and it associated symptoms and how it can prevent future worsening events</li> <li>Increase perceived benefits of medication adherence</li> <li>Decrease potential concerns regarding the use of the medication.</li> <li>Explain the probability of suffering potential side effects and address how to manage them if they appear</li> </ul>
Perception/Social stigma (Shame of taking the medication in public, in the work place, in front of family relatives and friends)	Reinforce the need of taking the medication at the right time Modify potential beliefs about social stigma related to the use of the medication
Absence of symptoms (e.g. asymptomatic nature of the disease, clinical improvement)	Educate on the condition, emphasizing the need of taking the medication even in the absence of symptoms Highlight the importance of taking the medication
Lack of motivation (e.g. Depression, lack of perception of clinical improvement)	in order to achieve the target clinical outcomes Reinforcement of knowledge regarding the condition, enquiring for factors that cause a lack of motivation
	Highlight the importance of taking the medication and associate it with future improvements on clinical outcomes and quality of life
	Provide positive reinforcement on actions undertaken by the patient Goal-setting and clinical outcomes monitoring
Patient-health care provider communication (e.g. lack of patient confidence on the health care provider, inaccurate communication)	Provide positive reinforcement of the prescriber's criteria
	Improve the trust between the health care provider- patient

b. Strategies targeted at adherent patients. These were tailored according to the patient's individual needs.

Recommended strategy	Description
Educate regarding the medication	Provision of education on the medication prescribed, assessing any queries regarding medication and disease management. Provision of verbal and written information when needed
Educate regarding the condition	Provision of education on the condition, providing verbal and written information when needed
Educate regarding the importance of medication adherence	Educate on the concept of medication adherence and its impact on health outcomes and quality of life. Provision of positive reinforcement of adherence behavior
Motivate/Recognise accomplishments	Pharmacist-patient review of clinical outcomes and adherence, recognition of achievements; goal setting and motivation to persist adherent.
Educate on clinical outcomes targets	Education on clinical outcomes targets
Solve other questions	Treatment changes, lifestyle changes

**Appendix 2:** Number of participants each outcome was collected from and rate (%) of missingness in follow-up visits by treatment group

Outcome	Number of eligible participants	Visit number	Control	Intervention
Adherence	n: Control=553, Intervention=633	1	0%	0%
		2	14%	9%
		3	11%	12%
		4	13%	15%
		5	17%	17%
		6	13%	12%
Systolic Blood Pressure (mmHG)	n: Control=217, Intervention=283	1	0%	1%
		2	15%	7%
		3	11%	11%
		4	10%	11%
		5	14%	13%
		6	9%	8%
Diastolic Blood Pressure (mmHG)	n: Control=217, Intervention=283	1	0%	1%
		2	15%	7%
		3	11%	11%
		4	10%	11%
		5	14%	13%
		6	9%	8%
Hypertension diagnosis	n: Control=217, Intervention=283	1	0%	1%
		2	15%	7%
		3	11%	11%
		4	10%	11%
		5	14%	13%
		6	9%	8%

Outcome	Number of eligible participants	Visit number	Control	Intervention
CCQ score	n: Control=154, Intervention=145	1	0%	0%
		2	14%	11%
		3	12%	11%
		4	16%	14%
		5	23%	20%
		6	19%	14%
CCQ binary (low clinical impact)	n: Control=154, Intervention=145	1	0%	0%
		2	14%	11%
		3	12%	11%
		4	16%	14%
		5	23%	20%
		6	19%	14%
ACQ score	n: Control=180, Intervention=205	1	1%	0%
		2	12%	10%
		3	10%	15%
		4	13%	20%
		5	15%	20%
		6	11%	16%
ACQ binary (asthma control)	n: Control=180, Intervention=205	1	1%	0%
		2	12%	10%
		3	10%	15%
		4	13%	20%
		5	15%	20%
		6	11%	16%

**Observation:** Linear and generalised linear mixed models for the study outcomes were used, allowing for the assumption of 'missing-at-random' (i.e. missing contingent on values included in the regression model) without requiring imputation for the missing outcomes.

## Appendix 3: Study outcomes

Comparison	Percentage of Patients (95% CI)		Odds Ratio	p-value	Percentage of Patients (95% CI)		Odds Ratio	p-value
	CG	IG	- (95% CI)	-	CG	IG	(95% CI)	-
		ce: Adherent patie	ents			ension control		
	ontrol=553, Inter			1	n: Control=219, Intervention=283			
At visit 1	44.3%	39.1%	0.82	0.34	52.9%	55.5%	1.11	0.63
	(37.0-51.8)	(32.6-46.0)	(0.54 - 1.24)		(45.2%-60.5%)	(48.5%-62.3%)	(0.73 - 1.68)	
At visit 2	61.9%	68.7%	1.39	0.13	55.4%	58.2%	1.12	0.61
	(54.3-68.9)	(62.2-74.6)	(0.91 - 2.13)		(47.3%-63.2%)	(51.1%-65.0%)	(0.73 - 1.73)	
At visit 3	66.2%	79.8%	2.06	0.0012*	57.9%	62.2%	1.20	0.42
	(58.9-72.8)	(74.4-84.3)	(1.33 - 3.19)		(49.9%-65.5%)	(55.0%-68.8%)	(0.77 - 1.85)	
At visit 4	65.1%	86.9%	3.60	< 0.0001	59.5%	65.3%	1.28	0.27
	(57.7-71.9)	(82.7-90.2)	(2.28 - 5.67)	*	(51.5%-67.0%)	(58.2%-71.7%)	(0.82 - 1.99)	
At visit 5	67.0%	88.7%	3.97	< 0.0001	57.1%	65.7%	1.44	0.11
	(59.7-73.6)	(84.8-91.7)	(2.49 - 6.33)	*	(49.0%-64.8%)	(58.6%-72.1%)	(0.92 - 2.24)	
At visit 6	66.5%	90.9%	5.12	< 0.0001	63.8%	68.3%	1.22	0.38
	(59.2-73.1)	(87.5-93.4)	(3.20 - 8.20)	*	(56.0%-71.0%)	(61.5%-74.5%)	(0.78 - 1.91)	
Overall		· · ·	1.86	0.0030*a			1.21	0.26 <sup>a</sup>
			(1.24 - 2.81)				(0.87 - 1.70)	
c) Asth	ma control				d) COPD	low clinical imp	bact	•
n: Ce	ontrol=180, Inter	vention=205			n: Con	trol=154, Interve	ention=145	
At visit 1	43.8%	37.3%	0.76 (0.44 - 1.32)	0.33	16.3%	20.6%	1.33 (0.68 -	0.40
	(34.3%-53.8%)	(29.0%-46.4%)			(10.7%-24.1%)	(14.1%-29.1%)	2.60)	
At visit 2	49.0%	49.4%	1.01 (0.58 - 1.77)	0.96	22.5%	27.7%	1.31 (0.69 -	0.41
	(38.9%-59.2%)	(40.0%-58.8%)			(15.4%-31.8%)	(19.6%-37.5%)	2.52)	
At visit 3	51.8%	57.7%	1.27 (0.72 - 2.23)	0.41	21.2%	40.8%	2.57 (1.35 -	0.0039*
	(41.6%-61.8%)	(48.0%-66.8%)			(14.3%-30.2%)	(31.0%-51.4%)	4.87)	
At visit 4	48.6%	60.1%	1.59 (0.90 - 2.83)	0.11	22.4%	40.0%	2.31 (1.22 -	0.0106*
	(38.5%-58.9%)	(50.3%-69.2%)	. ,		(15.2% - 31.6%)	(30.1%-50.7%)	4.40)	
At visit 5	48.9%	63.9%	1.85 (1.04 - 3.31)	0.0369*	27.0%	39.9% (29.9%-	1.80 (0.95 -	0.07
	(38.7%-59.2%)	(54.2%-72.6%)			(18.8%-37.1%)	50.8%)	3.42)	
At visit 6	57.8%	72.0%	1.88 (1.05 - 3.36)	0.0339*	29.2%	45.3%	2.01 (1.07 -	0.0294*
	(47.5%-67.5%)	(63.1%-79.5%)				(35.0%-56.0%)	3.75)	
Overall			1.28 (0.81 - 2.03)	0.29 <sup>a</sup>			1.92 (1.13 -	0.0151*a
					1		3.25)	1

2. CONTINU	JOUS VARIAB	LES							
Comparison	Systolic Blo	(95%CI) ood pressure nHg)	Mean difference (95% CI) between IG and	p-value	Mean (95%CI) Diastolic Blood pressure (mmHg)		Mean difference (95% CI	p-value	
	CG	IG	CG		CG	IG	between IG and CG		
a) SBP					b) DBP				
	ontrol=219, Inter		0.05	0.00		trol=219, Interv	1	2.25	
At visit 1	136.6	137.0	0.37	0.83	79.1	79.2	0.08	0.95	
	(134.2-139.1)	(137.8-139.2)	(-2.96 - 3.70)	0.40	(77.3-80.9)	(77.6-80.8)	(-2.34 - 2.49)	0.21	
At visit 2	137.3	136.1	-1.19	0.49	79.3	78.1	-1.26	0.31	
At visit 3	(134.8-139.8)	(133.8-138.4) 135.7	(-4.59 - 2.21) -0.45	0.79	(77.5-81.1) 79.8	(76.4-79.7) 78.1	(-3.71 - 1.19)	0.18	
At visit 5	136.1 (133.6-	135.7 (133.4-137.9)	-0.45 (-3.86 - 2.95)	0.79	/9.8 (77.9-81.6)	/8.1 (76.4-79.7)		0.18	
At visit 4	138.7) 136.9	(133.4-137.9) 135.0	(-3.86 - 2.95)	0.27	<u>(77.9-81.6)</u> 79.2	(76.4-79.7) 77.5	(-4.14 - 0.77)	0.16	
At Visit 4		135.0 (132.7-137.3)		0.27	/9.2 (77.4-81.0)	//.5 (75.8-79.1)		0.10	
At visit 5	(134.4-139.4) 136.6	(132.7-137.3) 134.4	(-5.34 - 1.48) -2.20	0.21	<u>(//.4-81.0)</u> 80.0	(75.8-79.1) 76.9	(-4.22 - 0.69) -3.08	0.0144*	
At visit 5	136.6 (134.0-139.1)	134.4 (132.1-136.7)	-2.20 (-5.63 - 1.23)	0.21	80.0 (78.1-81.8)	76.9 (75.2-78.5)	-3.08 (-5.550.61)	0.0144	
At visit 6	(134.0-139.1)	(132.1-130.7)	(-3.63 - 1.23)	0.53	<u>(78.1-81.8)</u> 79.6	(75.2-78.5)	-2.88	0.0213*	
At visit o			-1.10 (-4.49 - 2.29)	0.55		(75.1-78.3)		0.0215	
Overall	(132.2-137.3)	(131.4-135.9)	(-4.49 - 2.29) - <b>1.06</b>	0.48 <sup>a</sup>	(77.8-81.4)	(/3.1-78.3)	(-5.330.43) -1.70	0.13 <sup>a</sup>	
lveran		l I		0.48"				0.15"	
Overan		l .	(-3.99 - 1.88)				(-3.88 - 0.48)		
			(-3.99 - 1.88)				(-3.88 - 0.48)		
Comparison	Mean sco	re (95% CI)	Mean Difference (95% CI)	p-value	Mean scor	e (95%CI)	Mean Difference (95% CI)	p-value	
	Mean scor	re (95%CI) IG	Mean Difference	p-value	Mean scor CG	e (95%CI) IG	Mean Difference	p-value	
Comparison	CG	IG	Mean Difference (95% CI) between IG and CG	p-value	CG d) CCQ s	<b>IG</b> core (0-6, 0=be	Mean Difference (95% CI) between IG		
Comparison c) ACQ	<b>CG</b> score (0-6, 0= t	IG better clinical con	Mean Difference (95% CI) between IG and CG	p-value	CG d) CCQ s clinica	IG core (0-6, 0=be l impact)	Mean Difference (95% CI) between IG and CG tter health status.		
Comparison c) ACQ n: Co	<b>CG</b> score (0-6, 0= t ontrol=180, Inter	IG better clinical con rvention=205	Mean Difference (95% CI) between IG and CG trol)		CG d) CCQ s clinica n: Con	IG core (0-6, 0=be l impact) trol=154, Interv	Mean Difference (95% CI) between IG and CG tter health status, ention=145	low	
Comparison c) ACQ	CG score (0-6, 0= t ontrol=180, Inter 1.17	IG better clinical con rvention=205 1.16	Mean Difference (95% CI) between IG and CG trol)	<b>p-value</b> 0.98	CG d) CCQ s clinica n: Con 2.10	IG core (0-6, 0=be l impact) trol=154, Interv 1.79	Mean Difference (95% CI) between IG and CG tter health status, ention=145 -0.32		
Comparison c) ACQ n: Co At visit 1	CG score (0-6, 0= t ontrol=180, Inter 1.17 (0.97-1.37)	IG better clinical con rvention=205 1.16 (0.98-1.35)	Mean Difference (95% CI) between IG and CG trol) 0.00 (-0.27 - 0.27)	0.98	CG d) CCQ s clinica n: Con 2.10 (1.88-2.32)	IG core (0-6, 0=be l impact) trol=154, Interv 1.79 (1.57-2.01)	Mean Difference (95% CI) between IG and CG tter health status, ention=145 -0.32 (-0.63 - 0.00)	low 0.0476*	
Comparison c) ACQ n: Co	CG escore (0-6, 0= to ontrol=180, Inter 1.17 (0.97-1.37) 1.12	IG better clinical con rvention=205 1.16 (0.98-1.35) 0.98	Mean Difference (95% CI)           between IG and CG           trol)           0.00 (-0.27 - 0.27)           -0.14		CG d) CCQ s clinica n: Con 2.10 (1.88-2.32) 1.92	IG core (0-6, 0=be l impact) trol=154, Interv 1.79 (1.57-2.01) 1.63	Mean Difference (95% CI) between IG and CG tter health status, ention=145 -0.32 (-0.63 - 0.00) -0.30	low	
Comparison c) ACQ n: Co At visit 1 At visit 2	CG escore (0-6, 0= to ontrol=180, Inter 1.17 (0.97-1.37) 1.12 (0.92-1.33)	IG better clinical con rvention=205 1.16 (0.98-1.35) 0.98 (0.79-1.17)	Mean Difference (95% CI) between IG and CG trol) 0.00 (-0.27 - 0.27) -0.14 (-0.42 - 0.13)	0.98	CG d) CCQ s clinica n: Con 2.10 (1.88-2.32) 1.92 (1.70-2.15)	IG core (0-6, 0=be l impact) trol=154, Interv 1.79 (1.57-2.01) 1.63 (1.40-1.85)	Mean           Difference           (95% CI)           between IG           and CG           tter health status,           ention=145           -0.32           (-0.63 - 0.00)           -0.30           (-0.61 - 0.02)	low 0.0476* 0.07	
Comparison c) ACQ n: Co At visit 1	CG e score (0-6, 0= to ontrol=180, Inter 1.17 (0.97-1.37) 1.12 (0.92-1.33) 1.05	IG better clinical con rvention=205 1.16 (0.98-1.35) 0.98 (0.79-1.17) 0.90	Mean Difference (95% CI) between IG and CG trol) 0.00 (-0.27 - 0.27) -0.14 (-0.42 - 0.13) -0.14	0.98	CG d) CCQ s clinica n: Con 2.10 (1.88-2.32) 1.92 (1.70-2.15) 1.93	IG core (0-6, 0=be l impact) trol=154, Interv 1.79 (1.57-2.01) 1.63 (1.40-1.85) 1.45	Mean           Difference           (95% CI)           between IG           and CG           tter health status,           ention=145           -0.32           (-0.63 - 0.00)           -0.30           (-0.61 - 0.02)           -0.49	low 0.0476*	
Comparison c) ACQ n: Co At visit 1 At visit 2 At visit 3	CG 9 score (0-6, 0= b pontrol=180, Inter 1.17 (0.97-1.37) 1.12 (0.92-1.33) 1.05 (0.84-1.25)	IG better clinical con rvention=205 1.16 (0.98-1.35) 0.98 (0.79-1.17) 0.90 (0.71-1.09)	Mean Difference (95% CI)           between IG and CG           trol)           0.00 (-0.27 - 0.27)           -0.14 (-0.42 - 0.13)           -0.14 (-0.42 - 0.13)	0.98 0.31 0.31	CG d) CCQ s clinica n: Con 2.10 (1.88-2.32) 1.92 (1.70-2.15) 1.93 (1.71-2.16)	IG core (0-6, 0=be l impact) trol=154, Interv 1.79 (1.57-2.01) 1.63 (1.40-1.85) 1.45 (1.22-1.67)	Mean           Difference           (95% CI)           between IG           and CG           tter health status.           ention=145           -0.32           (-0.63 - 0.00)           -0.30           (-0.61 - 0.02)           -0.49           (-0.800.17)	low 0.0476* 0.07 0.0026*	
Comparison c) ACQ n: Co At visit 1 At visit 2	CG e score (0-6, 0= b ontrol=180, Inter 1.17 (0.97-1.37) 1.12 (0.92-1.33) 1.05 (0.84-1.25) 1.08	IG better clinical con rvention=205 1.16 (0.98-1.35) 0.98 (0.79-1.17) 0.90 (0.71-1.09) 0.80	Mean Difference (95% CI) between IG and CG trol) 0.00 (-0.27 - 0.27) -0.14 (-0.42 - 0.13) -0.14 (-0.42 - 0.13) -0.28	0.98	CG d) CCQ s clinica n: Con 2.10 (1.88-2.32) 1.92 (1.70-2.15) 1.93 (1.71-2.16) 1.91	IG core (0-6, 0=be l impact) trol=154, Interv 1.79 (1.57-2.01) 1.63 (1.40-1.85) 1.45 (1.22-1.67) 1.38	Mean           Difference           (95% CI)           between IG           and CG           tter health status,           ention=145           -0.32           (-0.63 - 0.00)           -0.30           (-0.61 - 0.02)           -0.49           (-0.800.17)           -0.53	low 0.0476* 0.07	
Comparison c) ACQ n: Co At visit 1 At visit 2 At visit 3 At visit 4	CG e score (0-6, 0= b ontrol=180, Inter 1.17 (0.97-1.37) 1.12 (0.92-1.33) 1.05 (0.84-1.25) 1.08 (0.87-1.28)	IG better clinical con rvention=205 1.16 (0.98-1.35) 0.98 (0.79-1.17) 0.90 (0.71-1.09) 0.80 (0.61-0.99)	Mean Difference (95% CI) between IG and CG trol) 0.00 (-0.27 - 0.27) -0.14 (-0.42 - 0.13) -0.14 (-0.42 - 0.13) -0.28 (-0.56 - 0.00)	0.98 0.31 0.31 0.05	CG d) CCQ s clinica n: Con 2.10 (1.88-2.32) 1.92 (1.70-2.15) 1.93 (1.71-2.16) 1.91 (1.68-2.13)	IG core (0-6, 0=be l impact) trol=154, Interv 1.79 (1.57-2.01) 1.63 (1.40-1.85) 1.45 (1.22-1.67) 1.38 (1.15-1.60)	Mean           Difference           (95% CI)           between IG           and CG           tter health status.           ention=145           -0.32           (-0.63 - 0.00)           -0.30           (-0.61 - 0.02)           -0.49           (-0.800.17)           -0.53           (-0.850.21)	low 0.0476* 0.07 0.0026* 0.0011*	
Comparison c) ACQ n: Co At visit 1 At visit 2 At visit 3	CG e score (0-6, 0= to ontrol=180, Inter 1.17 (0.97-1.37) 1.12 (0.92-1.33) 1.05 (0.84-1.25) 1.08 (0.87-1.28) 1.11	IG better clinical con rvention=205 1.16 (0.98-1.35) 0.98 (0.79-1.17) 0.90 (0.71-1.09) 0.80 (0.61-0.99) 0.71	Mean Difference (95% CI) between IG and CG trol) 0.00 (-0.27 - 0.27) -0.14 (-0.42 - 0.13) -0.14 (-0.42 - 0.13) -0.28 (-0.56 - 0.00) -0.40	0.98 0.31 0.31	CG d) CCQ s clinica n: Con 2.10 (1.88-2.32) 1.92 (1.70-2.15) 1.93 (1.71-2.16) 1.91 (1.68-2.13) 1.82	IG core (0-6, 0=be l impact) trol=154, Interv 1.79 (1.57-2.01) 1.63 (1.40-1.85) 1.45 (1.22-1.67) 1.38 (1.15-1.60) 1.31	Mean           Difference           (95% CI)           between IG           and CG           tter health status.           ention=145           -0.32           (-0.63 - 0.00)           -0.30           (-0.61 - 0.02)           -0.49           (-0.800.17)           -0.53           (-0.850.21)           -0.51	low 0.0476* 0.07 0.0026*	
Comparison c) ACQ n: Co At visit 1 At visit 2 At visit 3 At visit 4 At visit 5	CG escore (0-6, 0= to ontrol=180, Inter 1.17 (0.97-1.37) 1.12 (0.92-1.33) 1.05 (0.84-1.25) 1.08 (0.87-1.28) 1.11 (0.90-1.31)	IG better clinical con rvention=205 1.16 (0.98-1.35) 0.98 (0.79-1.17) 0.90 (0.71-1.09) 0.80 (0.61-0.99) 0.71 (0.52-0.90)	Mean Difference (95% CI) between IG and CG trol) 0.00 (-0.27 - 0.27) -0.14 (-0.42 - 0.13) -0.14 (-0.42 - 0.13) -0.28 (-0.56 - 0.00) -0.40 (-0.680.12)	0.98 0.31 0.31 0.05 0.0056*	CG d) CCQ s clinica n: Con 2.10 (1.88-2.32) 1.92 (1.70-2.15) 1.93 (1.71-2.16) 1.91 (1.68-2.13) 1.82 (1.59-2.05)	IG core (0-6, 0=be l impact) trol=154, Interv 1.79 (1.57-2.01) 1.63 (1.40-1.85) 1.45 (1.22-1.67) 1.38 (1.15-1.60) 1.31 (1.08-1.54)	Mean           Difference           (95% CI)           between IG           and CG           tter health status.           ention=145           -0.32           (-0.63 - 0.00)           -0.30           (-0.61 - 0.02)           -0.49           (-0.800.17)           -0.53           (-0.850.21)           -0.51           (-0.830.18)	low 0.0476* 0.007 0.0026* 0.0011* 0.0021*	
Comparison c) ACQ n: Co At visit 1 At visit 2 At visit 3 At visit 4	CG escore (0-6, 0= b ontrol=180, Inter 1.17 (0.97-1.37) 1.12 (0.92-1.33) 1.05 (0.84-1.25) 1.08 (0.87-1.28) 1.11 (0.90-1.31) 0.91	IG better clinical con rvention=205 1.16 (0.98-1.35) 0.98 (0.79-1.17) 0.90 (0.71-1.09) 0.80 (0.61-0.99) 0.71 (0.52-0.90) 0.63	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	0.98 0.31 0.31 0.05	CG d) CCQ s clinica n: Con 2.10 (1.88-2.32) 1.92 (1.70-2.15) 1.93 (1.71-2.16) 1.91 (1.68-2.13) 1.82 (1.59-2.05) 1.71	IG core (0-6, 0=be l impact) trol=154, Interv 1.79 (1.57-2.01) 1.63 (1.40-1.85) 1.45 (1.22-1.67) 1.38 (1.15-1.60) 1.31 (1.08-1.54) 1.21	Mean           Difference           (95% CI)           between IG           and CG           tter health status.           ention=145           -0.32           (-0.63 - 0.00)           -0.30           (-0.61 - 0.02)           -0.49           (-0.800.17)           -0.53           (-0.850.21)           -0.51           (-0.830.18)           -0.50	low 0.0476* 0.07 0.0026* 0.0011*	
Comparison c) ACQ n: Co At visit 1 At visit 2 At visit 3 At visit 4 At visit 5 At visit 6	CG escore (0-6, 0= to ontrol=180, Inter 1.17 (0.97-1.37) 1.12 (0.92-1.33) 1.05 (0.84-1.25) 1.08 (0.87-1.28) 1.11 (0.90-1.31)	IG better clinical con rvention=205 1.16 (0.98-1.35) 0.98 (0.79-1.17) 0.90 (0.71-1.09) 0.80 (0.61-0.99) 0.71 (0.52-0.90)	$\begin{tabular}{ c c c c c c } \hline Mean Difference (95\% CI) \\ \hline between IG and CG \\ \hline trol) \\ \hline \hline 0.00 \\ (-0.27 - 0.27) \\ -0.14 \\ (-0.42 - 0.13) \\ -0.14 \\ (-0.42 - 0.13) \\ -0.28 \\ (-0.56 - 0.00) \\ -0.40 \\ (-0.680.12) \\ -0.28 \\ (-0.56 - 0.00) \\ \hline \end{tabular}$	0.98 0.31 0.31 0.05 0.0056* 0.0489*	CG d) CCQ s clinica n: Con 2.10 (1.88-2.32) 1.92 (1.70-2.15) 1.93 (1.71-2.16) 1.91 (1.68-2.13) 1.82 (1.59-2.05)	IG core (0-6, 0=be l impact) trol=154, Interv 1.79 (1.57-2.01) 1.63 (1.40-1.85) 1.45 (1.22-1.67) 1.38 (1.15-1.60) 1.31 (1.08-1.54)	Mean           Difference           (95% CI)           between IG           and CG           tter health status.           ention=145           -0.32           (-0.63 - 0.00)           -0.30           (-0.61 - 0.02)           -0.49           (-0.800.17)           -0.53           (-0.850.21)           -0.51           (-0.830.18)	low 0.0476* 0.07 0.0026* 0.0011* 0.0021* 0.0022*	
Comparison c) ACQ n: Co At visit 1 At visit 2 At visit 3 At visit 4 At visit 5	CG escore (0-6, 0= b ontrol=180, Inter 1.17 (0.97-1.37) 1.12 (0.92-1.33) 1.05 (0.84-1.25) 1.08 (0.87-1.28) 1.11 (0.90-1.31) 0.91	IG better clinical con rvention=205 1.16 (0.98-1.35) 0.98 (0.79-1.17) 0.90 (0.71-1.09) 0.80 (0.61-0.99) 0.71 (0.52-0.90) 0.63	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	0.98 0.31 0.31 0.05 0.0056*	CG d) CCQ s clinica n: Con 2.10 (1.88-2.32) 1.92 (1.70-2.15) 1.93 (1.71-2.16) 1.91 (1.68-2.13) 1.82 (1.59-2.05) 1.71	IG core (0-6, 0=be l impact) trol=154, Interv 1.79 (1.57-2.01) 1.63 (1.40-1.85) 1.45 (1.22-1.67) 1.38 (1.15-1.60) 1.31 (1.08-1.54) 1.21	Mean           Difference           (95% CI)           between IG           and CG           tter health status.           ention=145           -0.32           (-0.63 - 0.00)           -0.30           (-0.61 - 0.02)           -0.49           (-0.800.17)           -0.53           (-0.850.21)           -0.51           (-0.830.18)           -0.50	low 0.0476* 0.07 0.0026* 0.0011* 0.0021*	

\*Statistically significant

ACQ: Asthma Control Questionnaire, CCQ: Clinical COPD Questionnaire, CG: Control Group, CI: Confidence Interval, DBP: Diastolic Blood Pressure, IG: Intervention Group, SD: Standard Deviation

	Percentage of adhere	nt Patients (95%CI)	011-D-4'- (050)		
Comparison	Control Group (CG) Intervention Group		Odds Ratio (95% CI)	p-value	
		(IG)	CI)		
		COPD			
At visit 1	47.6%	40.6%	0.75 (0.42 - 1.35)	0.34	
	(37.6%-57.9%)	(31.1%-50.8%)			
At visit 2	62.3%	71.6%	1.53 (0.82 - 2.85)	0.18	
	(51.6%-71.9%)	(61.7%-79.8%)	2.05 (1.05 4.00)	0.0005*	
At visit 3	66.6%	80.5%	2.07 (1.07 - 4.00)	0.0297*	
	(56.2%-75.6%) 65.3%	(71.8%-87.0%) 87.9%	2.99(1.00, 7.00)	0.0002*	
At visit 4		<b>0</b> · · · · · ·	3.88 (1.90 - 7.90)	0.0002*	
At visit 5	(54.7%-74.6%) 66.4%	(80.7%-92.7%) 91.4%	5.36 (2.46 - 11.7)	<0.0001*	
At visit J	(55.6%-75.8%)	(84.9%-95.2%)	5.50 (2.40 - 11.7)	N0.0001	
At visit 6	72.5%	92.9%	4.93 (2.20 - 11.1)	0.0001*	
At visit 0	(62.3%-80.7%)	(87.0%-96.2%)	4.93 (2.20 - 11.1)	0.0001	
Overall	(02.370-00.170)	(07.070-90.270)	1.71 (1.01 - 2.91)	0.0465 <sup>a</sup> *	
Overan		ASTHMA	1.71 (1.01 - 2.91)	0.0402	
At visit 1	31.5%	26.8%	0.79 (0.46 - 1.38)	0.42	
At visit 1	(23.5%-40.8%)	(20.0%-34.9%)	0.77 (0.40 - 1.50)	0.42	
At visit 2	60.1%	54.3%	0.79 (0.46 - 1.37)	0.42	
TH VISIT 2	(50.1%-69.3%)	(45.1%-63.2%)	0.77 (0.10 1.57)	0.12	
At visit 3	56.7%	69.2%	1.71 (0.98 - 3.00)	0.40	
	(46.7%-66.2%)	(60.2%-76.8%)	1.71 (0.90 5.00)	0.10	
At visit 4	54.1%	81.7%	3.80 (2.09 - 6.93)	0.06	
	(44.0%-63.8%)	(74.2%-87.5%)			
At visit 5	57.2%	83.7%	3.85 (2.09 - 7.09)	<0.0001*	
	(47.0%-66.8%)	(76.5%-89.0%)	× ,		
At visit 6	55.2%	85.%	4.59 (2.50 - 8.41)	<0.0001*	
	(45.1%-64.8%)	(78.2%-89.9%)			
Overall			1.86 (1.17 - 2.96)	0.0085 <sup>a</sup> *	
		HYPERTENSION			
At visit 1	54.5%	45.7%	0.70 (0.40 - 1.24)	0.22	
	(44.0%-64.6%)	(36.4%-55.2%)			
At visit 2	65.1%	77.8%	1.88 (1.02 - 3.46)	0.0416*	
	(54.5%-74.4%)	(69.9%-84.2%)			
At visit 3	75.8%	87.3%	2.20 (1.15 - 4.20)	0.0171*	
	(66.4%-83.2%)	(81.3%-91.6%)			
At visit 4	76.1%	91.1%	3.24 (1.65 - 6.34)	0.0006*	
	(66.8%-83.4%)	(86.3%-94.4%)			
At visit 5	77.7%	92.1%	3.34 (1.67 - 6.67)	0.0006*	
	(68.5%-84.8%)	(87.5%-95.1%)			
At visit 6	74.4%	94.8%	6.24 (3.05 - 12.7)	<0.0001*	
	(64.9%-82.1%)	(91.3%-96.9%)			
Overall	lue: Likelihood ratio p-va		1.67 (0.98 - 2.85)	<b>0.06</b> <sup>a</sup>	

<sup>a</sup> LR P-value: Likelihood ratio p-value for the overall effect of the outcome. \*Statistically significant **RESULTS:** The trends in the three conditions were similar, with an increase on the percentage of adherent patients at the end of the study. Statistically significant differences between intervention and control groups were observed earlier in COPD (starting at visit 3) and hypertension (starting at visit 2).