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Reporting Summary

Nature Research wishes to improve the reproducibility of the work that we publish. This form provides structure for consistency and transparency in reporting. For further information on Nature Research policies, seeAuthors & Referees and theEditorial Policy Checklist.

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Sta	atistics					
For	all statistical analys	es, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.				
n/a	Confirmed					
	🗶 The exact sam	The exact sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement				
×	A statement of	on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly				
×	The statistical test(s) used AND whether they are one- or two-sided Only common tests should be described solely by name; describe more complex techniques in the Methods section.					
	X A description of all covariates tested					
	X A description	A description of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons				
		A full description of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient) AND variation (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)				
	For null hypothesis testing, the test statistic (e.g. <i>F</i> , <i>t</i> , <i>r</i>) with confidence intervals, effect sizes, degrees of freedom and <i>P</i> value noted Give <i>P</i> values as exact values whenever suitable.					
×	For Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo settings					
×	For hierarchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes					
x	Estimates of effect sizes (e.g. Cohen's <i>d</i> , Pearson's <i>r</i>), indicating how they were calculated					
		Our web collection on <u>statistics for biologists</u> contains articles on many of the points above.				
So	ftware and c	code				
Poli	cy information abo	ut <u>availability of computer code</u>				
Data collection		Online patient notebook, proportioned to the needs of the study				
Data analysis		SPSS v 20.0				
For manuscripts utilizing custom algorithms or software that are central to the research but not yet described in published literature, software must be made available to editors/reviewers. We strongly encourage code deposition in a community repository (e.g. GitHub). See the Nature Research guidelines for submitting code & software for further information.						

Data

Policy information about availability of data

All manuscripts must include a <u>data availability statement</u>. This statement should provide the following information, where applicable:

- Accession codes, unique identifiers, or web links for publicly available datasets
- A list of figures that have associated raw data
- A description of any restrictions on data availability

The data that support the findings of this study are available from CLEVER RESEARCH but restrictions apply to the availability of these data, which were used under license for the current study, and so are not publicly available. Data are however available from the authors upon reasonable request and with permission of ORION PHARMA.

Field-specific reporting

Life sciences study design

	cs study design		
All studies must dis	e on these points even when the disclosure is negative.		
Sample size	culation of the simple size has been made with the intention to determine the prevalence of factors that diminish asthma's treatment acy. Given that the expected proportion of the presence of each risk factor, a formula for the estimation of a proportion in statistically populations was used to calculate sample size N= (Z2 x p x q) /d2		
Data exclusions	No data were excluded		
Replication	Not apply		
Randomization	t apply		
Blinding	t apply		
We require information system or method list Materials & expension of the control of the contro	ChIP-seq		
	ch participants ut studies involving human research participants		
Population chara			
'	inhaler devices (short acting beta2 agonists, corticosetroids +/- long acting beta2 agonists)		
Recruitment	Consecutive patients fulfilling inclusion criteria		
Ethics oversight	Ethics Committee permission (Registration 129 number. HCB/2016/0647)		
Note that full informa	on the approval of the study protocol must also be provided in the manuscript.		
Clinical data			
Policy information a All manuscripts should	ut <u>clinical studies</u> mply with the ICMJEg <u>uidelines for publication of clinical research</u> and a completed <u>CONSORT checklist</u> must be included with all submissions.		
Clinical trial regis	on No trial registration		
Study protocol	Full protocol could be accessed by contacting with corresponding author		
Data collection	From 1st september to 31 december 2016 in more than 200 specialized ambulatory care centers around Spain		
Outcomes	outcome1: determine the appropriateness of prescribed treatment as well as the presence of poor adherence and critical mistakes in the inhalation technic, in patients referred from primary care (Pearson's chi-squared test (χ2) for categorical day ANOVA test for continuous data) outcome 2: to study the relationship between these factors and poor asthma control (binary logistic regression)		