SUPPLEMENTARY MATERIAL

To respond to the items, a unique nine point ordinal Likert-type scale was proposed according to the model developed by UCLA-RAND Corporation (minimum 1, full disagreement; and maximum 9, full agreement). This scale was structured in three groups according to the level of agreement-disagreement of the item: from 1 to 3, interpreted as rejection or disagreement; from 4 to 6, interpreted as no agreement or disagreement; and from 7 to 9, interpreted as expression of agreement or support.

The consensus was reached when two-thirds or more of the respondents scored within the 3-point range (1-3 or 7-9) containing the median. The type of consensus achieved on each item was determined by the median value of the score. There was agreement if the median was \geq 7, and there was disagreement if the median was \leq 3. When the median score was located between a 4-6 range, the items were uncertain.

		Median (IQR)	% agreement	% disagreement	
Topic 1. Future patient education programs					
1.	Health education training of HCPs responsible of asthma patient education is deficient	7 (0)	78.5	5.2	
2.	The clinical relevance of mild asthma is insufficient to spend time to the education of these patients	2 (2)	7.7	85.5	
3.	In order to perform asthma education programs, coordination with the community pharmacy is necessary	7 (2)	71.6	4.3	
4.	Clinical guidelines should propose more demanding educational programs that can be adapted to different levels of care	8 (1)	81.2	4.3	
5.	Clinical guidelines address asthma patient education in an insufficient manner	7 (1)	71.6	7.8	
6.	New technologies for asthma education are difficult to use in all patients	7 (2)	51.7	14.7	
7.	Telemedicine offers the same educational possibilities as face-to-face education	3 (0)	7.8	79.3	
8.	Audiovisual educational programs are more effective than written programs	8 (3)	75.2	5.1	
9.	A national plan that considers asthma patients as chronic patients would effectively incorporate educational programs into the care process	8 (2)	84.6	0.0	
10	New technologies provide valuable additional information to personalize the education of asthma patients	8 (2)	87.2	0.9	
11.	New technologies for asthma education improve therapeutic adherence	7 (2)	67.5	0.0	
12.	New technologies for asthma education cannot be widely used due to patients with poor preparation or limited access to these resources	8 (2)	76.9	8.5	
13.	New technologies for asthma education cannot be widely used due to the limitations in training and skills of many HCPs	7 (1)	67.2	10.3	

Table 1. Results achieved by the experts after the two rounds of Delphi consensus

14. New technologies for asthma education show integrated into the computer systems of heal care facilities	th 8 (2)	87.2	0.9
15. New technologies for asthma education is constructive	ost- 8 (1)	77.8	0.0
16. New technologies for asthma education are beneficial for the professional and not only f the patient	for 8 (2)	89.8	0.0
17. Face-to-face education is more effective that learning education with new technologies	n e- 7 (3)	60.3	3.4
18. Education programs using new technologies only valid as a complement to face-to-face education	are 7 (1)	81.9	6.0
 The educational tools of new technologies n be approved and provided by the Health Administration 	nust 8 (2)	86.3	0.9
20. New technologies facilitate healthcare coordination in asthma education	8 (1)	84.6	0.9
21. The educational tools of new technologies sl be associated with a common computer syst for all levels of care	hould em 8 (2)	91.5	2.6
22. Patients should be involved in the developm selection of new technology tools used in as education	ent or thma 8 (2)	83.8	1.7
Topic 2. Physician knowledge			
23. Access to brief clinical guidelines should be improved using new technologies	8 (2)	90.6	0.0
24. The knowledge of the clinical guidelines requirements training programs performed by reference teachers	uires 8 (3)	75.2	6.8
25. The use of the peak flow meter is useful in the follow-up of hypoperceptive patients	he 7 (3)	73.5	5.1
26. The use of the peak flow meter is only useful Specialized Care	ıl in 2 (2)	6.8	82.1
27. The use of the peak flow meter for the follow of patients with asthma is unreliable because depends on its correct use	w-up e it 3 (3)	22.4	50.9
	11		

29. It is necessary to check that the patient has understood the questions of the asthma control questionnaires to validate their results	9 (1)	94.9	0.9
30. Asthma control questionnaires should be included in the follow-up of patients with asthma	9 (1)	93.2	0.0
 The use of the TAI should be complemented by checking the withdrawal of medication through the electronic prescription 	8 (2)	87.2	0.9
32. The ACT and TAI-10 should be included in the standardized clinical history of patients with asthma, and their use should be mandatory	7 (3)	72.7	7.7
 Regular and frequent training of nursing professionals in spirometry in the Primary Care setting is necessary 	9 (1)	95.7	0.9
34. Primary Care should have a nursing professional specialized in spirometry	9 (1)	91.5	0.9
35. In order to establish spirometry in Primary Care, it is necessary to include asthma in a program of care for chronic patients	8 (2)	80.3	6.0
36. Spirometry should be centralized in the Primary Care setting by creating territorial respiratory function units	6 (3)	49.1	15.5
37. The measurement of PEF is sufficient in the Primary Care setting, and spirometry is not essential	2 (2)	8.5	79.5
 In the emergency department, PEF measurement is preferable to spirometry 	7 (2)	87.9	2.6
39. Allergy tests should be performed on all patients diagnosed with asthma	8 (2)	76.1	10.3
40. Allergy tests should only be performed by the Allergology specialist	7 (8)	55.2	38.8
41. Allergy training of Pneumology and Family Medicine residents should be strengthened	9 (2)	90.6	0.9
42. The contents of knowledge improvement programs should be adapted to each level of care	9 (1)	96.6	0.0
43. Actions aimed at optimizing the knowledge and skills of physicians should be part of a National	9(1)	93.2	0.9

44.	Nursing can perform clinical follow-up only in cases of stable patients	7 (2)	54.3	17.2
45.	Nursing should be responsible only for the educational components of patient follow-up	3 (2)	19.0	68.1
46.	Nursing should be responsible for administering asthma control questionnaires	8 (2)	88.0	0.9
47.	Nursing should be in charge of checking therapeutic adherence including inhalation technique in patient follow-up	8 (2)	94.9	0.0
48.	New technologies are an effective alternative in the face-to-face follow-up of patients with asthma by nurses	7 (3)	69.2	6.8
49.	The adherence of patients to telemedical follow- up programs is worse than face-to-face follow-up	5 (2)	33.6	7.8
50.	Asthma education by the nursing professional should be standardized for all patients	6 (4)	50.0	37.9
51.	The nursing professional should adapt asthma education to each patient according to individual patient characteristics	9 (1)	96.6	0.0
52.	The nursing professional should prioritize the education of patients with asthma after the resolution of exacerbations because this is the most receptive time for the patient	8 (2)	79.5	4.3
53.	The nursing professional should perform asthma education in all interactions with patients, adapting it to each clinical situation	9 (1)	94.0	0.0
54.	The main barrier to the success of asthma education programs is the lack of specialized nursing	8 (2)	81.0	8.6
55.	The main barrier to the success of asthma education programs is the scarcity of resources committed by Health Administration	8 (2)	82.1	3.4
Тој	pic 4. Role of pharmacists			
56.	The community pharmacist can provide health education to patients with asthma	7 (2)	76.7	11.2
57.	A system of alerts should be set up so that the pharmacist can alert nurses or physicians about the improper use of medication	8 (1)	94.0	0.9
58.	The community pharmacist should be responsible for checking the correct handling of inhalation devices by patients with asthma	7 (2)	65.5	17.2

59. The community pharmacist should participate in reinforcing the therapeutic adherence of patients with asthma	8 (2)	88.0	2.6
60. The participation of the community pharmacist in the multidisciplinary team that assists patients with asthma helps to improve health outcomes	8 (2)	82.9	0.9

ACT: Asthma Control Test; HCP: health care professional; PEF: peak expiratory flow; TAI: *Test de Adhesión a los Inhaladores* (Inhaler Adherence Test)

Consensus in agreement	
Consensus in disagreement	
Neither agreement nor disagreement (uncertain)	