The use of triple therapy in asthma. The GEMA-FORUM V task force

DELPHI CONSENSUS RESULTS

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
To	pic 1. Role of LAMA in asthma	<u> </u>		
1.	LAMAs can replace LABAs in combinations with ICS in those patients in whom LABAs are poorly tolerated or have contraindications.	8 (2)	71.8	10.6
2.	LAMAs can replace LABAs in combinations with ICS in patients with asthma–COPD overlap.	5 (3)	18.8	31.8
3.	LAMAs can replace LABAs in combinations with ICS in patients with ischemic heart disease.	7 (3)	54.1	14.1
4.	LAMAs cannot replace in any case LABAs in combinations with ICS, being only an additional drug.	3 (3)	15.3	71.8
5.	Experience with the use of LAMAs in COPD confirms that adverse effects are of low incidence and mild in most cases and that, therefore, they have a good safety profile in the treatment of asthma.	8 (1)	96.5	1.2
6.	LAMAs have a better cardiovascular safety profile than LABAs.	7 (1)	78.8	4.7
7.	LAMA have adverse effects, so the risk/benefit balance should be assessed in patients with prostatic pathology or urinary retention.	7 (2)	67.1	12.9
8.	LAMAs have adverse effects, so they should be administered with caution in patients with narrow-angle glaucoma.	8 (1)	83.5	2.4
9.	LAMAs have adverse effects that do not make them recommended for patients with severe constipation.	4 (3)	10.6	48.2
10.	LAMAs provide additional benefit in patients with asthma and bronchiectasis.	7 (1)	88.2	0.0
11.	LAMAs are especially indicated in asthma patients with chronic airflow obstruction.	8 (1)	91.8	2.4
12.	LAMAs are especially indicated in asthma patients with frequent coughing.	7 (2)	70.6	3.5
13.	LAMAs are especially indicated in patients with asthma and mucosal hypersecretion.	8 (1)	80.0	2.4

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

14. All patients with asthma, regardless of severity, should be phenotyped in order to determine the best treatment.	9 (2)	77.7	9.4
15. A neutrophilic phenotype is associated with a better response to LAMA.	7 (1)	77.7	2.4
16. A high degree of bronchial hyperresponsiveness in the methacholine challenge test is an indicator of good response to LAMA treatment.	6 (2)	49.4	11.8
17. Patients with obesity-associated asthma are good responders to treatment with LAMA.	5 (1)	23.5	13.0
 A high reversibility in the bronchodilator test is an indicator of good response to LAMA treatment. 	6 (2)	47.1	11.8
19. Identification of patients responding to LAMA treatment should be done without phenotyping, as phenotyping is only recommended in severe asthma.	3 (4)	16.5	67.1
20. Combined ICS/LABA/LAMA treatment in a single device improves therapeutic adherence.	9 (1)	95.3	1.2
21. Combined ICS/LABA/LAMA treatment in a single device increases treatment efficacy by ensuring synergy between the drugs.	8 (2)	83.5	1.2
22. Combined ICS/LABA/LAMA treatment in a single device minimizes the risk of poor technique with respect to the use of multiple devices.	9 (1)	91.8	3.5
23. Combined ICS/LABA/LAMA treatment in a single device is cost-effective.	9 (1)	90.6	1.2
24. Availability of the ICS/LABA/LAMA combination in a single device brings ecological benefits by reducing the consumption of materials and energy expenditure used in its manufacture, generating less waste.	9 81)	91.8	1.2
25. Availability of the ICS/LABA/LAMA combination in a single device reduces the negative impact on carbon footprint.	9 (2)	87.1	1.2
26. Combined ICS/LABA/LAMA treatment in a single device increases the risk of undertreatment with triple therapy in case of poor adherence.	8 (4)	58.8	17.7
27. Some ICS/LABA/LAMA combinations in a single device allow the ICS dose to be modified.	9 (2)	83.5	7.1

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28.	Administration of LAMA in a separate device allows assessment of the response to this additional treatment.	7 (2)	69.4	9.4
29.	Administration of LAMA in a separate device allows LAMA to be added transiently and withdrawn in the short term without modifying the base treatment.	8 (2)	78.8	7.1
30.	Transient administration of LAMA is not routine clinical practice in the management of asthma.	3 (5)	32.9	58.8
Тор	pic 2. Early indication: triple therapy with ICS/L	ABA/LAN	IA at medium	n doses of ICS
31.	In patients treated with ICS/LABA at medium doses of ICS, ICS step-up is more effective in symptom control than adding LAMA.	7 (3)	71.8	3.5
32.	In patients treated with ICS/LABA at medium doses of ICS, ICS step-up is preferable to switching to triple therapy because triple therapy often involves switching molecules.	5 (3)	38.8	23.5
33.	In patients treated with ICS/LABA at medium doses of ICS, adding LAMA is preferable to stepping-up ICS in patients with airflow obstruction.	7 (2)	71.8	8.2
34.	In patients treated with ICS/LABA at medium doses of ICS, adding LAMA is preferable to stepping-up ICS in patients with osteoporosis.	7 (2)	74.1	5.9
35.	In patients treated with ICS/LABA at medium doses of ICS, adding LAMA is preferable to stepping-up ICS in patients with a history of oropharyngeal mycosis.	8 (2)	74.1	5.9
36.	In patients treated with ICS/LABA at medium doses of ICS, stepping-up to high-dose ICS is preferable for prevention of exacerbations than switching to triple therapy.	7 (2)	72.9	5.9
37.	Triple therapy with ICS/LABA/LAMA is equally effective as high-dose ICS in preventing exacerbations in patients where previous exacerbations have been mild or moderate.	6 (2)	44.7	10.6
38.	Triple therapy with ICS/LABA/LAMA is equally effective as high-dose ICS in preventing exacerbations in patients where previous exacerbations have been severe.	5 (3)	12.9	29.4
39.	Triple therapy is effective in preventing exacerbations when treatment is planned for the long term.	7 (2)	73.3	3.5

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40. Triple therapy in a single device should be administered after testing the response to the addition of LAMA in a device separate from that of ICS/LABA treatment.	2 (2)	14.1	72.9
41. In elderly patients it is recommended to add LAMA in a different device in order to avoid the change of the previous inhaler.	3 (2)	4.7	73.3
42. Before adding LAMA to the treatment of asthma, it is recommended to assess the patient's inflammatory profile.	7 (2)	91.8	4.7
Topic 3. Late indication: triple therapy with ICS/LA	BA/LAM	A at high dos	ses of ICS
43. Triple therapy has special utility in the treatment of patients with non-T2 asthma.	7 (1)	75.3	8.2
44. Triple therapy has special utility in the treatment of patients with non-esophilic asthma.	7 (2)	68.2	11.8
45. The priority response criterion to triple therapy is symptom control.	8 (1)	79.1	9.3
46. The priority response criterion to triple therapy is improvement in quality of life.	7 (2)	73.3	10.5
47. The priority response criterion to triple therapy is improvement in pulmonary function.	7 (1)	63.5	7.1
48. The priority response criterion to triple therapy is a decrease in exacerbations.	8 (2)	88.4	3.5
49. Comparative studies between triple therapy versus ICS-LABA with MART strategy are needed.	8 (2)	86.0	7.0
50. It is not recommended to perform triple therapy in MART strategy due to the possible adverse effects of medication abuse.	8 (2)	83.5	2.4
51. It is not recommended to perform triple therapy in MART strategy due to the slower bronchodilator response.	2 (4)	10.6	65.9
52. Triple therapy in a single device does not involve an obstacle to stepping-down of high-dose ICS therapy in controlled patients.	8 (1)	78.8	4.7
53. During stepping-down of treatment with LABA/LAMA/ICS at high doses, reduction of ICS to medium doses is preferable to withdrawal of LAMA.	5 (2)	44.7	7.1
54. During stepping-down of treatment with LABA/LAMA/ICS at high doses, withdrawal of	5 (3)	22.4	30.6

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	LAMA is preferable to reduction of ICS at medium doses.				
55.	During stepping-down of treatment with LABA/LAMA/ICS at high doses, withdrawal of LAMA or reduction of ICS should be decided based on the patient's inflammatory profile.	8 (2)	80.2	5.8	
56.	During stepping-down of treatment with LABA/LAMA/ICS at high doses, withdrawal of LAMA or reduction of ICS should be decided based on lung function.	7 (3)	52.9	12.9	
57.	During stepping-down of treatment with LABA/LAMA/ICS at high doses, withdrawal of LAMA or reduction of ICS should be decided based on the patient's quality of life.	7 (2)	57.6	14.1	
58.	Triple therapy in asthma is especially indicated in smoking patients.	7 (1)	78.8	3.5	
59.	Triple therapy can be considered, in most cases, as a step prior to the use of a biologic drug.	9 (1)	95.4	1.2	
60.	For the administration of triple therapy in a single device, ultrafine particle devices are preferable.	8 (3)	74.4	3.5	
61.	Obtaining a visa hinders access to single-device triple therapy for patients with asthma.	8 (3)	69.4	14.1	
62.	Treatment of asthma with triple therapy in a single device is best suited to patients with severe asthma who prefer the administration schedule every 12 hours.	8 (3)	73.0	5.9	

COPD: chronic obstructive pulmonary disease; ICS: inhaled corticosteroids; LABA: long-acting beta2agonist; LAMA: long-acting muscarinic antagonist; MART: Maintenance and Reliever Therapy

Con	nsensus in agreement
Con	isensus in disagreement
Neit	ther agreement nor disagreement (uncertain)