Appendix Five case scenarios and responses from the study participants (n=201)

	Questions and choice options (Correct answers are shaded)		Response	
	- · · · · · · · · · · · · · · · · · · ·	<u>n</u>	(%)	
Case 1A	A 40-year-old male non-smoker, with a FEV1 of 85% predicted SABA daily for symptoms, and has no nocturnal symptoms or re			
	or physical activities. This patient would be classified as:	110		
	a) Controlled asthma	110	54.7	
	b) Partly-controlled asthma	43	21.4	
	c) Uncontrolled asthma	6	3.0	
	d) Unknown	39	19.4	
	<u>Correct answer</u>		<u>21.4</u>	
1 B	If the above patient has been taking no other medication th inhaled SABA, what treatment adjustment will you consider for b		needed	
	a) No change in treatment	80	39.8	
	b) Change as-needed inhaled SABA to scheduled use	24	11.9	
	c) Add oral B2 agonist	8	4.0	
	d) Add theophylline	15	7.5	
	e) Add anti-leukotriene (such as montelukast)	16	8.0	
	f) Add oral steroid	7	3.5	
	g) Add low-dose ICS	62	30.8	
	h) Add medium to high-dose ICS	5	2.5	
	i) Add combination of ICS/LABA	20	10.0	
	k) Add inhaled anticholinergic drugs	4	2.0	
	l) Apply SMART strategy	8	4.0	
	m) Other drugs	14	7.0	
	n) Unknown	0	0.0	
	<u>Correct answer</u>		<u>22.4</u>	
1C	If the above patient has already been taking low-dose ICS, in a needed inhaled SABA, what treatment adjustment will you consid			
	a) No change in treatment	62	30.8	
	b) Change as-needed inhaled SABA to scheduled use	38	18.9	
	c) Add oral B2 agonist	15	7.5	
	d) Add theophylline	8	4.0	
	e) Add anti-leukotriene (such as montelukast)	20	10.0	
	f) Add oral steroid	8	4.0	
	g) Double the dose of ICS	10	5.0	

h) Change ICS alone to combination of ICS/LABA	56	27.9
j) Add inhaled anticholinergic drugs	7	3.5
k) Apply SMART strategy	7	3.5
1) Other drugs	0	0.0
m) Unknown	6	3.0
<u>Correct answer</u>		<u>28.9</u>

Case 2A			
	has nocturnal symptoms at least once a week. This patient would be classified as:		
	a) Controlled asthma	18	9.0
	b) Partly-controlled asthma	71	35.3
	c) Uncontrolled asthma	77	38.3
	d) Unknown	33	16.4
	Correct answer		<u>33.8</u>

2B If the above patient has been taking no other medication than her as-needed inhaled SABA, what treatment adjustment will you consider for her?

a) No change in treatment	6	3.0
b) Change as-needed inhaled SABA to scheduled use	32	15.9
c) Add oral B2 agonist	23	11.4
d) Add theophylline	29	14.4
e) Add anti-leukotriene (such as montelukast)	20	10.0
f) Add oral steroid	21	10.4
g) Add low-dose ICS	63	31.3
h) Add medium to high-dose ICS	39	19.4
i) Add combination of ICS/LABA	56	27.9
k) Add inhaled anticholinergic drugs	11	5.5
1) Apply SMART strategy	4	2.0
m) Other drugs	2	1.0
n) Unknown	1	0.5
<u>Correct answer</u>		<u>50.7</u>

2C If the above patient has already been taking low-dose ICS, in addition to her asneeded inhaled SABA, what treatment adjustment will you consider for her?

a) No change in treatment	11	5.5
b) Change as-needed inhaled SABA to scheduled use	39	19.4
c) Add oral ß2 agonist	16	8.0
d) Add theophylline	3	1.5
e) Add anti-leukotriene (such as montelukast)	19	9.5
f) Add oral steroid	4	2.0

g) Double the dose of ICS	38	18.9
h) Change ICS alone to combination of ICS/LABA	94	46.8
j) Add inhaled anticholinergic drugs	5	2.5
k) Apply SMART strategy	3	1.5
1) Other drugs	1	0.5
m) Unknown	8	4.0
Correct answer		<u>48.3</u>

2D If the above patient has already been taking combination therapy with ICS and LABA, in addition to her as-needed inhaled short-acting B2 agonist, what treatment adjustment will you consider for her? a) No change in treatment 28 13.9 b) Change as-needed inhaled SABA to scheduled use 24 11.9 12 6.0 c) Add oral ß2 agonist 26 12.9 d) Add theophylline e) Add anti-leukotriene (such as montelukast) 23 11.4 f) Add oral steroid 33 16.4 76 37.8 g) Increase the dose of existing ICS/LABA i) Add inhaled anticholinergic drugs 17 8.5 8 j) Apply SMART strategy 4.0 k) Other drugs 3 1.5 1) Unknown 4 2.0 Correct answer 21.4

Case A 40-year-old woman with non-smoker experienced twice or less of daytime 3A asthma symptoms per week in the past 3 months. He also had no nocturnal symptoms and limitations of activities. He used the as-needed inhaled SABA for less than 2 times a week and her FEV1 was 85% predicted. This patient would be classified as:

a) Controlled asthma	84	41.8
b) Partly-controlled asthma	56	27.9
c) Uncontrolled asthma	21	10.4
d) Unknown	34	16.9
Correct answer		<u>41.8</u>

3B If the above patient has already been taking low-dose ICS, in addition to his asneeded inhaled SABA, what treatment adjustment will you consider for him?

a) No change in treatment	50	24.9
b) Stop ICS	9	4.5
c) Reduce to a half of ICS dose	9	4.5
d) Add theophylline	5	2.5

e) Add anti-leukotriene (such as montelukast)	26	12.9
f) Double the dose of ICS	38	18.9
g) Change ICS alone to combination of ICS/LABA	61	30.3
h) Anti-IgE injection	16	8.0
i) Apply SMART strategy	5	2.5
j) Other drugs	4	2.0
k) Unknown	2	1.0
Correct answer		23.4

3C If the above patient has already been taking combination therapy of a medium dose of ICS and LABA, in addition to his as-needed inhaled SABA what treatment adjustment will you consider for him?

a) No change in treatment	37	18.4
b) Stop combination of ICS/LABA	10	5.0
c) Stop ICS and keep LABA	2	1.0
d) Stop LABA and keep ICS	12	6.0
e) Reduce to half of ICS dose and keep LABA	27	13.4
f) Add anti-leukotriene (such as montelukast)	25	12.4
g) Increase dose of combination ICS/LABA	62	30.8
i) Apply SMART strategy	18	9.0
j) Other drugs	5	2.5
k) Unknown	8	4.0
<u>Correct answer</u>		<u>25.9</u>

Case	An 8-year-old boy has symptoms at least thrice a week. He often	requires st	opping
4 A	his physical activities (like running) due to asthma symptom nocturnal symptoms at least once a week. His FEV1 was 84%. T		
	be classified as:	-	
	a) Controlled asthma	18	9.0
	b) Partly-controlled asthma	51	25.4
	c) Uncontrolled asthma	83	41.3
	d) Unknown	47	23.4
	<u>Correct answer</u>		<u>41.3</u>
4B	I B		
	inhaled SABA, what treatment adjustment will you consider for l		
	a) No change in treatment	13	6.5
	b) Change as-needed inhaled SABA to scheduled use	28	13.9
	c) Add oral B2 agonist	15	7.5
	d) Add theophylline	17	8.5
	e) Add anti-leukotriene (such as montelukast)	16	8.0

f) Add oral steroid	15	7.5
g) Add low dose ICS	84	41.8
h) Add medium to high-dose ICS	19	9.5
i) Add combination of ICS/LABA	29	14.4
k) Add inhaled anticholinergic drugs	3	1.5
l) Apply SMART strategy	6	3.0
m) Other drugs	12	6.0
n) Unknown	5	2.5
Correct answer		<u>52.7</u>

A 30-year-old pregnant lady at 22 weeks of gestation, uses an inhaled SABA daily Case 5 A for symptoms, and has no nocturnal symptoms or restriction to social or physical activities. Her FEV1 is 82% predicted, this patient would be classified as: a) Controlled asthma 103 51.2 b) Partly-controlled asthma 40 19.9 c) Uncontrolled asthma 16 8.0 38 18.9 d) Unknown Correct answer 19.9 **5B** If the above patient has already been taking low-dose ICS, in addition to his asneeded inhaled SABA, what treatment adjustment will you consider for her? a) No change in treatment 86 42.8 25 b) Change as-needed inhaled SABA to scheduled use 12.4 5 2.5 c) Add oral ß2 agonist 9 d) Add theophylline 4.5 7 e) Add anti-leukotriene (such as montelukast) 3.5 f) Add oral steroid 3 1.5 g) Add low-dose ICS 5.5 11

h) Add medium to high-dose ICS 8.0 16 i) Add combination of ICS/LABA 22 10.9 k) Add inhaled anticholinergic drugs 1 0.5 1) Apply SMART strategy 2 1.0

3

4

1.5

2.0

11.9

SABA=short-acting beta agonist; LABA=long-acting beta agonist; ICS=inhaled corticosteroid

m) Other drugs

Correct answer

n) Unknown