

Supplement

Table S1 Number of completions of the Patient Benefit Index Allergic Rhinitis questionnaires

	<i>n</i>	%
Children		
PBI global score could be computed (PNQ and PBQ completed)	163	73.1
PNQ not completed	8	3.6
PBQ not completed	50	22.4
Too many missings/"does not apply to me" for calculating global score	2	0.9
Total	223	100
Adolescents		
PBI global score could be computed (PNQ and PBQ completed)	88	72.1
PNQ not completed	5	4.1
PBQ not completed	28	23.0
Too many missings/"does not apply to me" for calculating global score	1	0.8
Total	122	100
Adults		
PBI global score could be computed (PNQ and PBQ completed)	417	77.5
PNQ not completed	12	2.2
PBQ not completed	101	18.8
Too many missings/"does not apply to me" for calculating global score	8	1.5
Total	538	100

PBI: Patient Benefit Index; PNQ: Patient Needs Questionnaire; PBQ: Patient Benefit Questionnaire.

Table S2 Distribution of patient-relevant needs and benefits in children (aged 5–12 years), measured with the PBI-AR-K

		Patient Needs Questionnaire (PNQ)		Patient Benefit Questionnaire (PBQ)	
As a result of therapy, how important is it for you to ... (PNQ) / The current treatment has helped me to ... (PBQ)		<i>n</i> (patients without missing values)	Importance rating: quite/very ¹	<i>n</i> (patients without missing values)	Benefit rating: quite/very ²
1)	... no longer have to sneeze (S2)	214	61.7	167	43.7
2)	... no longer have a runny or stuffy nose (S3)	214	84.1	168	42.9
3)	... be able to breathe through your nose freely (S3)	214	84.1	166	41.0
4)	... feel less tired or groggy (S2)	215	61.9	130	50.8
5)	... be able to stay outdoors without symptoms (S4)	215	83.7	155	51.0
6)	... have an easily applicable treatment (S1)	211	82.0	152	78.9
7)	... not have itching eyes, nose or throat anymore (S4)	213	86.4	165	48.5
8)	... not have burning or watery eyes anymore (S4)	214	78.0	148	48.0
9)	... no longer have hay fever symptoms (S3)	213	89.7	168	45.8
10)	... be able to sleep better (S2)	215	65.1	131	56.5
11)	... need less time for treatment (S1)	211	67.3	145	79.3
12)	... feel well even with having hay fever (S3)	212	90.1	156	60.3
13)	... be able to do anything you want in your free time even while having hay fever (S4)	215	88.8	149	63.8
14)	... feel more comfortable being around other people (S2)	215	75.3	123	65.9
15)	... be focused at school (S2)	214	69.6	120	62.5
16)	... not be excluded by others (S2)	214	46.3	83	55.4
17)	... not to have to go to the doctor so often (S1)	215	71.2	142	69.0

18)	... have a comfortable treatment (S1)	215	81.4	157	74.5
19)	... have fewer side effects (S1)	214	79.4	148	72.3

PBI-AR-K: Patient Benefit Index Allergic Rhinitis for children and adolescents; PNQ: Patient Needs Questionnaire; PBQ: Patient Benefit Questionnaire; n: Number of patients.

¹Percentage calculated with 100 % including patients ticking “does not apply”.

²Percentage calculated with 100 % excluding patients ticking “did not apply”, as for these patients, the goal was not important; S1 item from the subscale ‘treatment burden’, S2 item from the subscale ‘fatigue/social life’, S3 item from the subscale ‘physical symptoms’, S4 item from the subscale ‘being outdoors’.

This is not an official translation of the PBI-AR-K.

Table S3 Distribution of patient-relevant needs and benefits in adolescents (aged 13–17 years), measured with the PBI-AR-K

As a result of therapy, how important is it for you to ... (PNQ) / The current treatment has helped me to ... (PBQ)	Patient Needs Questionnaire (PNQ)		Patient Benefit Questionnaire (PBQ)	
	<i>n</i> (patients without missing values)	Importance rating: quite/very ¹	<i>n</i> (patients without missing values)	Benefit rating: quite/very ²
1) ... no longer have to sneeze (S2)	116	57.8	90	45.6
2) ... no longer have a runny or stuffy nose (S2)	117	69.2	92	51.1
3) ... be able to breathe through your nose freely (S2)	115	77.4	91	54.9
4) ... feel less tired or groggy (S3)	115	60.0	75	49.3
5) ... be able to stay outdoors without symptoms (S2)	115	75.7	86	51.2
6) ... have an easily applicable treatment (S1)	113	71.7	82	69.5
7) ... not have itching eyes, nose or throat anymore (S2)	117	76.1	86	52.3
8) ... not have burning or watery eyes anymore (S2)	117	76.1	88	54.5
9) ... no longer have hay fever symptoms (S2)	117	86.3	91	48.4
10) ... be able to sleep better (S3)	117	55.6	73	63.0
11) ... need less time for treatment (S1)	117	61.5	80	75.0
12) ... feel well even with having hay fever (S3)	116	77.6	81	70.4
13) ... be able to do anything you want in your free time even while having hay fever (S3)	117	83.8	77	62.3
14) ... feel more comfortable being around other people (S3)	117	62.4	69	63.8
15) ... be focused at school (S3)	116	62.9	70	54.3
16) ... not be excluded by others (S3)	115	32.2	47	61.7
17) ... not to have to go to the doctor so often (S1)	115	60.9	75	68.0

18)	... have a comfortable treatment (S1)	117	73.5	85	68.2
19)	... have fewer side effects (S1)	116	76.7	81	65.4

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²Percentage calculated with 100 % excluding patients ticking “did not apply”, as for these patients, the goal was not important; S1 item from the subscale ‘treatment burden’, S2 item from the subscale ‘physical symptoms’, S3 item from the subscale ‘psychological burden’.

This is not an official translation of the PBI-AR-K.

Table S4 Distribution of patient-relevant needs and benefits in adults (≥ 18 years), measured with the PBI-AR

As a result of therapy, how important is it for you to ... (PNQ) / The current treatment has helped me to ... (PBQ)	Patient Needs Questionnaire (PNQ)		Patient Benefit Questionnaire (PBQ)	
	<i>n</i> (patients without missing values)	Importance rating: quite/very ¹	<i>n</i> (patients without missing values)	Benefit rating: quite/very ²
1) ... not have sneezing impulses anymore (S3)	524	80.2	424	49.8
2) ... no longer have a runny or stuffed up nose (S3)	524	90.8	426	49.5
3) ... be able to breathe through your nose more freely (S3)	525	89.0	423	53.0
4) ... feel less fatigued or groggy (S4)	523	76.9	409	48.2
5) ... be able to stay outdoors without symptoms (S3)	524	88.9	425	50.8
6) ... feel less irritated (S1)	523	58.5	357	48.5
7) ... have an easily applicable treatment (S2)	522	80.1	423	71.6
8) ... not have itching on the eyes, nose or palate anymore (S3)	525	85.0	422	55.0
9) ... not have burning or watery eyes anymore (S3)	523	81.6	410	53.4
10) ... be healed of all symptoms (S3)	523	88.7	425	42.1
11) ... be able to sleep better (S1)	525	70.9	395	50.1
12) ... feel less depressed (S1)	525	61.0	352	50.0
13) ... experience a greater enjoyment of life (S1)	525	66.1	360	53.6
14) ... have no fear that the disease will become worse (S1)	523	62.1	370	55.9
15) ... be more productive in everyday life (S4)	525	78.1	402	55.5
16) ... be able to engage in normal leisure activities (S4)	526	78.1	417	57.8
17) ... be comfortable showing yourself more in public (S1)	523	46.7	317	49.8

18)	... be able to concentrate better at work (S4)	522	71.3	379	54.6
19)	... be less burdened in your partnership (S1)	523	46.5	311	52.7
20)	... be able to have a normal sex life (S1)	523	42.8	288	48.6
21)	... be less dependent on doctor and clinic visits (S2)	521	62.0	363	52.1
22)	... need less time for daily treatment (S2)	520	67.1	400	58.5
23)	... have fewer out-of-pocket treatment expenses (S2)	523	64.2	400	52.8
24)	... have fewer side effects (S2)	524	73.3	402	57.2
25)	... have confidence in the therapy (S2)	522	81.6	417	67.1

PBI-AR: Patient Benefit Index Allergic Rhinitis; PNQ: Patient Needs Questionnaire; PBQ: Patient Benefit Questionnaire; n: Number of patients.

¹Percentage calculated with 100 % including patients ticking “does not apply”.

²Percentage calculated with 100 % excluding patients ticking “did not apply”, as for these patients, the goal was not important; S1 item from the subscale ‘psychological burden’, S2 item from the subscale ‘treatment burden’, S3 item from the subscale ‘physical symptoms’, S4 item from the subscale ‘activity/physical capability’.