SUPPLEMENTARY MATERIAL

Supplementary Table 1. Transition planning

Item	% of disagreement		% of r	neutral	% of agreement	
	1 st round	2 nd round ^a	1 st round	2 nd round ^a	1 st round	2 nd round ^a
Pediatricians should formally start the transition process when the patient						
Turns 12-14 years old	49*	41*	27*	25*	25*	35*
Turns 14-16 years old	14*	13*	30*	17*	56*	69*
Turns 16-18 years old	22*	36*	28*	26*	50*	39*
Shows an adequate degree of maturity, regardless of the biological age	30*	33*	24*	32*	47*	36*
The patient and/or parents/guardians requests the transition to adult care	38*	53*	35*	31*	28*	16*
During the transition process, the healthcare team should aim for the adolescent patient to						
Reach a degree of maturity so that the patient can responsibly manage severe asthma disease	1	-	3	-	96	-
Identify severe asthma disease features correctly	2	-	3	-	95	-
Identify each of the prescribed medications, understand the reason for its prescription and to know how and when to take them	1	-	7	-	92	-
Demonstrate using a correct inhaler technique	1	-	8	-	91	-
Adhere to prescribed maintenance treatments without family supervision	3	-	7	-	90	-
Correctly identify the prescribed biological therapy, posology and the reason for the prescription (in case of biological treatment)	1	-	10	-	89	-
Reach a level of maturity so he can become the main interlocutor with adult care specialists	5	-	13	-	82	-
Have a home environment that favors their independence as a patient	6	-	15	-	79	-
Be able to attend follow-up visits on their own, with no company	16*	25*	34*	43*	50*	32*

^aOnly those items without consensus in the first round were voted in the second round. * indicates items not reaching consensus in the first/second round.

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Supplementary Table 2. Transition process: Preparation stage

Item	% of disagreement % of neutral % of agreement					
	1 st round	2 nd round ^a	1 st round	2 nd round ^a	1 st round	2 nd round ^a
Selection of patient candidate for transition The pediatric healthcare team should						
Define an individualized transition plan for each adolescent patient before initiating the transition process	0	-	8	-	92	-
Identify the adolescent patient candidate to starting the transition	0	-	10	-	90	-
Patient empowerment The pediatric healthcare team should						
Educate the adolescent patient so they can detect exacerbations adequately	0	-	2	-	98	-
Educate the adolescent patient so they have a deep knowledge of prescribed treatments and show an adequate use of them	0	-	3	-	97	-
Adapt treatment schedule to facilitate adherence during the preparation stage and the overall transition process	0	-	5	-	95	-
Educate the adolescent patient on healthy activities and on prevention of those activities that could impact disease management	0	-	6	-	94	-
Adopt a communication style oriented to the characteristics of the adolescent patient	0	-	6	-	94	-
Educate the adolescent patient to acquire appropriate capabilities in severe asthma knowledge	0	-	7	-	93	-
Verify that the adolescent patient is capable of managing severe asthma autonomously	2	-	7	-	91	-
Encourage the adolescent patient to become the main interlocutor with the healthcare team	0	-	10	-	90	-
Have written information about severe asthma and the transition process to provide the patient with	2	-	9	-	89	-
Verify that the adolescent patient is able to describe the characteristics of their disease adequately	1	-	14	-	85	-
Understand the transition process is a part of the personal growth of the patient	1	-	14	-	85	-
schedule follow-up visits with the patient in the absence of parents/guardians to assess their readiness level for the transition to adult care	9*	19*	26*	36*	65*	45*

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Identify factors within the adolescent patient's home environment that may challenge the transition process	0	-	6	-	94	-
Inform the patient and parents/guardians about how the transition process will occur	0	-	8	-	92	-
Prepare parents/guardians to start gradually assuming a secondary role, assigning increasing responsibility to the patient over disease self-management	3	- ,	9	<u>)</u> . ′	88	-
nteraction with adult care specialists Pediatric/Adult) Healthcare teams should						
(Adult)Be severe asthma specialists with expertise in personalized treatments	1		2	-	97	-
(Adult)Be able to manage the complexity of the adolescent patient all the way through this life-changing period	0	-	5	-	95	-
(Pediatric)Develop a line of communication with the allergist/pulmonologist that will treat the adolescent patient in the future before transferring the patient to adult care	0		6	-	94	-
(Adult)Have specific training in management of adolescent patients	0	-	10	-	90	-
(Pediatric and adult)Ensure that the patient and their parents/guardians meet the adult care team that will manage the patient in the future	1	-	11	-	88	-
(Pediatric)Inform the adult specialist team that the patient has started the process of transition to adult care	2	-	13	-	85	-
nformation to be transmitted to adult care specialists The pediatric healthcare team should						
Share detailed information regarding patient's medical history with dult care specialists	0	-	1	-	99	-

^aOnly those items without consensus in the first round were voted in the second round. * indicates items not reaching consensus in the first/second round.

d 2 nd round ^a	1 st round	2 nd round ^a	1 st round	
			is round	2 nd round ^a
- YC.	22	-	70	-
29*	28*	20*	57*	51*
-	3	-	97	-
-	14	-	85	-
-	18	-	71	-
9*	29*	30*	67*	61*
24*	29*	24*	60*	52*
25*	36*	34*	45*	40*
34*	38*	51*	29*	14*
-	6	-	91	-
-	7	-	91	-
	- - - 9* 24* 25*	29* 28* - 3 - 14 - 18 9* 29* 24* 29* 25* 36* 34* 38* - 6	29* 28* 20* - 3 - 14 18 - 9* 29* 30* 24* 29* 24* 25* 36* 34* 34* 38* 51*	29* 28* 20* 57* - 3 - 97 - 14 - 85 - 18 - 71 9* 29* 30* 67* 24* 29* 24* 60* 25* 36* 34* 45* 34* 38* 51* 29*

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Supplementary Table 4. Transition process: Follow-up stage

Item	% of disag	reement	% of neutral		% of agreement	
	1 st round	2 nd round ^a	1 st round	2 nd round ^a	1 st round	2 nd round ^a
The (adult/pediatric) healthcare team should						
(Adult)Monitor patient's treatment adherence right after the transfer	0		1	-	99	-
(Adult) Verify the patient keeps using a correct inhaler technique right after the transfer	0	-	1	-	99	-
(Adult) Explain to the patient what information regarding severe asthma should monitor between visits (inhaler technique, adherence to treatment, rescue medication use, symptoms, number of exacerbations, among others)	0		4	-	96	-
(Adult) Closely monitor the patient to detect any severe asthma clinical change right after the transfer	0		8	-	92	-
(Adult)Monitor patient's attendance to follow-up visits during the first 12 months after the transfer	1	-	11	-	88	-
(Adult)Collect patient and parents/guardians overall satisfaction with the transition process	2*	10*	29*	26*	69*	64*
(Pediatric)Offer a "rescue visit" at pediatric care when the transition has been incomplete or unsuccessful	13*	25*	19*	11*	67*	64*
(Pediatric)Offer the patient the possibility to contact the pediatric specialist for severe asthma related concerns	11*	20*	22*	19*	66*	59*
(Pediatric)Call the patient that has transitioned to verify that the process has been adequately performed	29*	44*	35*	25*	37*	31*
(Adult) Schedule follow-up visits for the next 12 months after the first visit of the patient to adult care	10*	43*	26*	35*	64*	22*
(Adult)Notify parents/guardians about the patient becoming accountable on severe asthma self-management, so they should adopt a secondary role, without having to be present at follow-up visits	27*	39*	40*	38*	34*	22*
(Pediatric)Offer an on-site follow-up visit at pediatric care to verify that the transition has been correctly carried out	30*	51*	41*	27*	30*	21*

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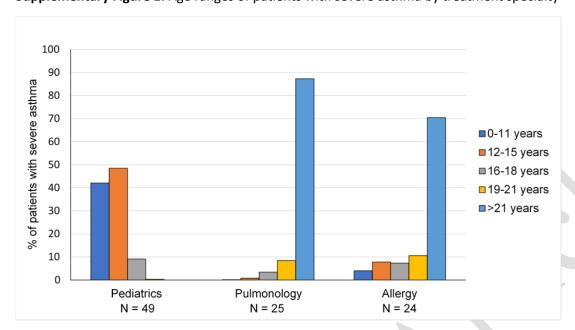
Supplementary Table 5. List of participating panelists.

Abel Pallarés Sanmartín, Adrianna Machinena Spera, Alberto Álvarez Perea, Alejandro López Neyra, Alfredo Valenzuela Soria, Alicia Callejón Callejón, Alicia Habernau Mena, Álvaro Gimeno Díaz de Atauri, Ana Isabel Tabar Purroy, Ana María Martínez-Cañavate Burgos, Ana Sogo Sagardia, Anna Ferrer Franco, Andreu Peñas Aguilera, Anselmo de Andrés Martín, Antonio Moreno Galdó, Astrid Crespo Lessmand, Beatriz Abascal Bolado, Borja Osona Rodríguez de Torres, Carlos Cabrera López, Carlos Martín de Vicente, Carlos Martínez Rivera, Carolina Díaz García, Celia Pinedo Sierra, Cristina Rivas Juesas, David Gómez-Pastrana Durán, David González de Olano, David Romero Ribate, Elena Alonso Villán, Elena Hierro Delgado, Elena Pérez Belmonte, Elisabet Vera Solsona, Erwin Javier Pinillos Robles, Eusebi Chiner Vives, Eva Martínez Moragón, Francisco David El-Qutob López, Francisco Javier Álvarez Gutiérrez, Francisco Javier de Castro Martínez, Francisco Álvarez Caro, Francisco Pérez Grimaldi, Gemma García del Cerro, Genoveva del Río Camacho, Ignacio Antépara Ercoreca, Íñigo Ojanguren Arranz, Irán Sánchez Ramos, Irina Bobolea, , Jacinto Ramos González, Javier Álvarez-Coca González, Javier Gallego Borrego, Javier Pérez Frías, Jose Luis Izquierdo Alonso, José Manuel Merino Arribas, José María Vega Chicote, José Ramón Villa Asensi, José Damián López Sánchez, José Domingo Moure González, Juan Fraj Lazaro, Laura Moreno Galarraga, Leticia Vila Sexto, Lourdes Lázaro Asegurado, Luis Borderías Clau, Luis Echeverria Zudaire, Manuel Castilla Martínez, María Araceli Caballero Rabasco, Maria Basagaña Torrentó, María Cols Roig, María Mesa del Castillo Payá, María José Bueso Fabra, María Luisa González Gutiérrez, María del Mar Gandolfo Cano, María del Mar Martínez Colls, María del Mar Moro Moro, María del Valle Velasco González, Marta Palop Cervera, Mercedes García Reymundo, Miguel Ángel Zafra Anta, Miguel Tortajada Girbés, Mirella Piera Gaboli, Natalia Molini Menchón, Nuria Díez Monge, Olga Luengo Sánchez, Orlando Mesa Medina, Patricia García-Marcos Barbero, Pedro Galindo Bonilla, Pilar Gajate Fernández, Pilar Llobet Agullo, Porfirio Fernández González, Rocío Díaz Campos, Rubén Andújar Espinosa, Ruperto González Pérez, Santiago Quirce Gancedo, Santiago Rueda Esteban, Sara Fernández Cortés, Sara Pereiro Fernández, Sendy Chugo Gordillo, Silvia Castillo Corullón, Sonia de Arriba Méndez, Xabier Korta Murua, Yolanda Aliaga Mazas.

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Supplementary Figure 1. Age ranges of patients with severe asthma by treatment specialty



Stacked bars show the proportion patients with severe asthma in each age range by specialty.

Supplementary Figure 2. Patient transfer checklist

Patient da	ta								
			ne patient in the ad the discharge/dere		ologic in the dispensing	Yes No No N/A			
PATIENT INFOR	MATION								
TREATMENT									
Current maintena	ince treatme	nt	Write down			No 🗆			
			Biological t	Biological treatment Yes Which one					
Treatment adhere	ence level		Adherence	☐ Non-adhere	ence				
Previous treatme	nts		Write down	and specify reason	for withdrawal				
Number of visits Number of hospil Number/cycles of	cal admission	s in the last 1		S	(indicate	test and score)			
UNG FUNCTION									
		Pre	Date	Post	Date				
	FEV ₁								
Last 12 months	Z Score								
	FVC					_			
Best lung	FEV ₁								
Function	ZScore								
BIOMARKERS									
			In the last 12 months	Highest value achieved					
	d nitric oxide	(FE _{NO})							
Fractional exhale	eosinophilia								
Peripheral blood					Exposure to tob	acco smoke Yes No			
Peripheral blood			Eosinophilic esoph	nagitis	Obesity				
Peripheral blood Total IgE COMORBIDITIES Atopic dermat					Sleep apnoea-hypopnoea syndrome				
Peripheral blood Total IgE COMORBIDITIES Atopic dermat	5		Food allergy	al rofless	Other-				
Peripheral blood Total IgE COMORBIDITIES Atopic dermat Allergic rhinitis Chronic rhinos	5		Food allergy Gastro-oesophage	eal reflux	Other				
Peripheral blood Total IgE COMORBIDITIES Atopic dermat	5			eal reflux	Other				