

**TABLE E3.** Characteristics of patients with hereditary  $\alpha$ -tryptasemia (H $\alpha$ T) arranged according to BST level

Patient No.	Sex	Age	Culprit history	Grade*	BST level			TPSAB1 genotype	CVD comorbidity	Time to onset of symptoms (min)	Skin symptoms	Unconsciousness	First-line therapy	Previous anaphylaxis	Relaps after finishing previous VIT		Initiated VIT	Other clinical features of H $\alpha$ T syndrome	Bone marrow assessment
					slgE i1	slgE i3	$\alpha/\alpha$								No VIT	Yes VIT			
1	M	40	<i>Vespinae</i> spp	II	7.23	3.11	3.58	$\alpha\alpha/\alpha$	No	11-30	Yes	No	Ah, CS	No	No VIT	No	No	Rejected	
2	M	46	<i>Vespinae</i> spp	III	8.42	<0.35	8.21	$\alpha\alpha/\beta$	No	11-30	Yes	No	Ah, CS	No	No VIT	Yes	No	Rejected	
3	M	22	Unk. Hym	II	10.5	2.08	<0.35	$\alpha\alpha/\alpha$	No	>60	Yes	No	Unknown	No	No VIT	No	No	Rejected	
4	M	43	<i>Vespinae</i> spp	IV	11.3	1.00	3.09	$\alpha\alpha/\beta$	No	0-10	Yes	No	Unknown	I (15 y ago)	No VIT	Yes	No	1 minor (MCs exhibit CD25)	
5	M	24	<i>Honeybee</i>	IV	11.8	5.95	<0.35	$\alpha\alpha/\alpha$	No	0-10	Yes	No	Ah, CS	No	No VIT	Yes	No	No SM criteria	
6	F	43	Unk. Hym	I	12.4	<0.35	12.9	$\alpha\alpha/\beta$	No	0-10	Yes	No	Ah, CS	No	No VIT	No	No	Rejected	
7	F	55	Unk. Hym	IV	12.4	0.56	4.54	$\alpha\alpha/\alpha$	No	0-10	No	Yes	Ah,CS	Unknown	No VIT	Yes	No	1 minor (MCs exhibit CD25)	
8	M	57	<i>Vespinae</i> spp	IV	13.3	<0.35	19.9	$\alpha\alpha/\beta$	Yes	0-10	Yes	No	Ah, CS, Epi	Unknown	No VIT	Yes	No	ISM	
9	M	64	<i>Vespinae</i> spp	IV	13.3	0.7	7.38	$\alpha\alpha/\alpha$	Yes	0-10	Yes	Yes	Ah, CS, Epi	No	No VIT	Yes	No	Rejected	
10	F	57	<i>Vespinae</i> spp	III	14.1	<0.35	9.83	$\alpha\alpha/\beta$	No	0-10	Yes	No	Ah, CS, Epi	No	No VIT	Yes	Sleep disruption	Rejected	
11	M	21	<i>Vespinae</i> spp	II	14.2	1.66	3.16	$\alpha\alpha/\beta$	No	0-10	Yes	No	Ah, CS, Epi	No	No VIT	No	No	Rejected	
12	F	52	<i>Vespinae</i> spp	III	14.2	<0.35	1.42	$\alpha\alpha/\alpha$	No	0-10	No	No	Ah, CS	No	No VIT	No	No	Rejected	
13	M	60	Unk. Hym	IV	15.1	8.5	<0.35	$\alpha\alpha/\alpha$	Yes	0-10	Yes	Yes	Ah, CS, Epi	No	No-VIT	Yes	Arthralgia, hypermobility	No SM criteria	
14	M	76	<i>Vespinae</i> spp	I	15.1	<0.35	1.28	$\alpha\alpha/\alpha$	No	0-10	Yes	No	Unknown	No	No VIT	No	No	Rejected	
15	M	68	Unk. Hym	IV	16.4	<0.35	26.7	$\alpha\alpha/\alpha$	Yes	11-30	Yes	No	Ah, CS	No	No VIT	Yes	No	1 minor (spindle shaped MC)	
16	M	58	<i>Vespinae</i> spp	IV	16.7	0.75	1.95	$\alpha\alpha/\beta$	No	11-30	Yes	No	Ah, CS, Epi	No	No VIT	No	Chronic gastroesophageal reflux symptoms	Rejected	
17	M	69	Unk. Hym	IV	25.1	0.51	0.41	$\alpha\alpha/\alpha$	No	11-30	Yes	Yes	Unknown	No	No VIT	Yes	No	1 minor (MCs exhibit CD25)	
18	F	53	<i>Vespinae</i> spp	IV	34.2	<0.35	0.98	$\alpha\alpha/\beta$	No	11-30	Yes	No	Unknown	No	No VIT	Yes	No	ISM	

Ah, Antihistamine (intravenous administration); CS, corticosteroid (intravenous administration); CVD, cardiovascular diseases; Epi, Epinephrine; HB, Honeybee; ISM, indolent systemic mastocytosis; slgE, specific IgE; Unk. Hym, unknown Hymenoptera insect; VIT, venom immunotherapy; YJ, yellow jacket.

\*Grades were assigned according to the Mueller grading system.<sup>E7</sup>