

Table 1: Risk factors for anaphylaxis in children with mastocytosis (adapted from (102))

Criterion	Risk factor outcome	Study
Extent and density of skin lesions	Anaphylaxis in those with extent > 45% and density > 15%	Brockow et al. (42)
Serum tryptase	Significantly elevated in patients with anaphylaxis	Brockow et al. (42)
	Correlation with severity	Alvarez-Twose et al. (13)
Skin involvement	> 90%: risk factor for hospitalization*	Alvarez-Twose et al. (13)
Blistering	Risk factor for hospitalization*	Brockow et al. (15)
Diffuse cutaneous mastocytosis	Risk factor for hospitalization*	Alvarez-Twose et al. (13)

* Hospitalization because of severe mast cell activation episodes

Table 2. Frequency of anaphylaxis in children with mastocytosis in the literature

Study*	Year	No	Frequency	Elicitors
Gonzales (45)	2007	47	3 (6.4%)	Food, idiopathic
Brockow (42)	2008	46	4 (9%)	Food, vaccination, cold water, idiopathic
Alvarez-Twose (13)	2012	111	4 (3.6%)	Heat, skin rubbing, fever
Lange (35)	2013	101	7 (7%)	Clindamycin, ketamine, gadolinium contrast, stress, idiopathic
Barnes (14)	2014	67	1 (1.5%)	NA
Matito (55)	2015	48	1 (2.0%)	Perioperative
Lange (38)	2017	102	2 (2%)	Ketamine, idiopathic
Heinze (43)	2017	43	0 (0%)	NA
Studies combined		565	22 (3.9%)	

*First authors; NA= not available.