

Table 2. Demographic and clinical characteristics of the study group:

Patient No.	Age, (years) / sex	Indication/ Rituximab Dose	Dose at which HSR occurred	Initial HSRs Clinical Symptoms	Initial HSRs Phenotype	HSR grade	Skin test	Atopy	Tryptase Baseline/During HSR (ng/mL)	Total numbers of RDD	Reaction during RDD
1.T.Y	57/F	NHL/675 mg	1st	Urticaria, flushing itching, fever, dyspnea, tachycardia	type I	2	n.d.	neg.	n.d./n.d	5	None
2.S.F	60/F	NHL/ 750 mg	1st	Flushing, fever, dyspnea, tachycardia	cytokine-release	2	neg.	n.d.	7.23 / 9.02	19	9th step of 1st RDD: fever
3.C.Ç	55/M	NHL/ 675 mg	1st	Angioedema, urticaria, flushing, itching, fever, dyspnea, tachycardia, hypotension, nausea, vomiting, vision problems	mixed reaction	3	neg.	n.d.	10.5 / 24.6*	14	12th step of 1st DD: flushing, urticaria
4.A.K	55/M	pemphigus/ 630 mg	4th of 2nd course	Angioedema, itching, flushing, cough,	type I	2	n.d.	n.d.	n.d / n.d.	10	12th step 1st RDD: urticaria 12th step of 10th RDD: angioedema, urticaria, hypotension
5.G.D.	44/F	RA/ 1000 mg	1st	Angioedema, urticaria, itching, flushing, dyspnea, cough, larynx edema	type I	2	n.d.	yes (to pollen)	2.42 / 3.32	5	12th step of all RDDs: itching in throat and ear
6.H.B	41/F	RA/ 1000 mg	1st	Angioedema, itching, fever, flushing, cough, tachycardia, numbness, back pain	mixed reaction	2	neg.	n.d.	1.37 / n.d.	4	12th step of 1st and 2nd RDDs: dry cough, dyspnea, throat and chest tightness, responded to adrenaline
7.K.D	39/M	NHL, leukemia/ 190 mg	1st	Angioedema, urticaria, flushing itching, fever, dyspnea, tachycardia,	mixed reaction	3	IDT 1:100	yes (to HDM)	6.28 / 6.57	3	None

				cough, hypotension, numbness, nausea, vomiting							
8.S.A	57/F	lymphoma/ 330 mg	1st	Urticaria, flushing fever, tachycardia, hypotension nausea, vomiting, back pain	mixed reaction	3	IDT 1:100	yes (topollen)	4.79 / 5.78	8	12th step of 1st RDD: urticaria
9.A.U	69/F	lymphoma/ 600 mg	1st	Angioedema, urticaria, itching, dyspnea, tachycardia, cough, nausea, vomiting, back pain	type I (non-IgE)	3	neg.	n.d.	1.27 / 3.16	5	None
10.F.Y	68/F	CLL/ 700 mg	1st	Angioedema, urticaria, itching, hypothermia, flushing,	mixed reaction	2	IDT 1:100	No	4.94 / 6.07	4	12th step of 1st RDD: fever (38.3°C)
11.Y.K	66/F	lymphoma/ 637 mg	1st	Urticaria, itching, flushing, dyspnea, tachycardia	type I (non-IgE)	2	neg.	No	7.82 / n.d.	6	None
12.M.U	59/F	RA/ 1000 mg	1st	Itching, dyspnea, fever	cytokine-release	2	neg.	No	4.49 / 4.63	15	12th step of 1st RDD: sneezing, dyspnea, throat tightness
13.K.K	57/F	NHL/ 765 mg	5th	Urticaria, itching, flushing, dyspnea, tachycardia, hypotension, abdominal pain	type I (IgE)	3	IDT 1:10	n.d.	1.65 / n.d.	3	None
14.L.K	63/F	NHL/ 600 mg	1st	Angioedema, itching, flushing, dyspnea, nausea,	mixed reaction	2	IDT 1:1000	n.d.	4.88 / 6.59	5	4th step of 1st RDD: dyspnea, 10th step of 2nd RDD: dyspnea,
15.H.E	23/M	SLE/ 500 mg	4th	Itching, fever, flushing, dyspnea, back pain	type I (non-IgE)	2	neg.	yes (to pollen)	n.d / n.d.	3	1st RDD: none 12th step of 2nd RDD: back pain 9th step of 3rd RDD: backpain, nausea

16.F.T.	55/M	NHL/ 675 mg	1st	Urticaria, itching, flushing, dyspnea, tachycardia, nausea, vomiting,	type I	2	neg.	No	2.90 / n.d.	3	None
17.N.Y	53/F	pemphigus/ 1000 mg	1st	Angioedema, urticaria, itching, dyspnea, cough, tachycardia, nausea,	type I	2	neg.	No	3.87 / n.d.	1	None
18.S.Y	55/F	NHL/ 650 mg	2nd	Angioedema, urticaria, itching, flushing, cough, vomiting	type I	2	neg.	No	1 / n.d.	6	None
19.T.D	60/M	NHL / 668 mg	1st	Fever, dyspnea, cough, tachycardia,	cytokine-release	2	n.d.	n.d.	1.23 / n.d.	7	1st RDD: fever (38.3°C)
20.A.Ç	23/M	lymphoma/ 740 mg	1st	Itching, flushing, dyspnea, cough, cyanosis, tachycardia	type I	3	neg.	n.d.	n.d. / n.d.	5	None
21.F.I	62/F	CLL/ 600 mg	1st	Angioedema, urticaria, itching, dyspnea, cyanosis, tachycardia, hypotension, nausea, vomiting, back pain, numbness	mixed reaction	3	neg.	No	n.d. / n.d.	3	After 1st RDD: fever (40.1°C)
22.R.A	32/F	Malignant small round cell tumor/ 480 mg	1st	Fever, tachycardia, angioedema, urticaria	mixed reaction	2	IDT 1:10	No	1.37 / n.d.	4	None
23.S.Y	52/M	lymphoma/ 690 mg	1st	Itching, flushing, fever, dyspnea, cyanosis, tachycardia, hypotension, abdominal pain, back pain, numbness	mixed reaction	3	neg.	n.d.	3.17 / 4.13	1	3th step of 1st RDD: angioedema, urticaria, hypotension, desaturation Stopped RDD
24.N.U	63/F	Waldenstrom's Macroglobuline mia/ 585 mg	1st	Angioedema, urticaria, itching, flushing, fever, dyspnea, tachycardia abdominal pain, nausea,	mixed reaction	3	neg.	n.d.	n.d. / n.d.	2	1st RDD: fever (38.9°C)

				vomiting, back pain							
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Chronic lymphocytic leukemia (CLL), Female (F), Hypersensitivity reactions (HSR), Intradermal test (IDTs), Male (M), Non-Hodgkin's lymphoma (NHL), Systemic lupus erythematosus (SLE), Rheumatoid arthritis (RA), Rituximab, RTX, negative (neg.), not determined (n.d.), RDD: Rapid drug desensitization

* Tryptase level during a initial reaction