

Supplementary Materials: Intramuscular Ricin Poisoning of Mice Leads to Widespread Damage in the Heart, Spleen, and Bone Marrow

Anita Sapoznikov, Amir Rosner, Reut Falach, Yoav Gal, Moshe Aftalion, Yentl Evgy, Ofir Israeli ¹, Tamar Sabo and Chanoch Kronman

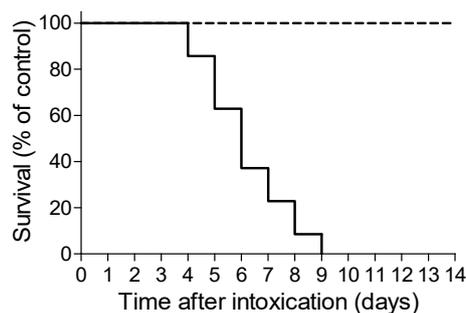


Figure 1. Survival curve of mice following intramuscular (i.m.) ricin administration. Mice were injected i.m. with PBS (dashed line, n = 5) or ricin (2LD₅₀, 18 µg ricin/kg body weight, solid line, n = 35) and survival was monitored until day 14 following intoxication.

Table S1. Biochemical and hematological parameters, which did not change following exposure of mice to ricin.

		Time after exposure (h)			
		control	24	48	72
Serum chemistry	ALB (g/dL)	3.3 ± 0.2	2.9 ± 0.2	1.6 ± 0.85	2.35 ± 0.2
	TBIL (mg/dL)	0.2 ± 0	0.18 ± 0.04	0.3 ± 0.1	0.93 ± 0.95
	CRE (mg/dL)	0.28 ± 0.13	0.24 ± 0.1	0.63 ± 0.21	0.6 ± 0.2
	TP (g/dL)	4.4 ± 0.2	4.2 ± 0.15	4.3 ± 2.6	4.7 ± 1.3
	GLOB (g/dL)	1 ± 0.13	1.28 ± 0.13	1.4 ± 0.5	1.4 ± 1.27
Blood count	LY (K/µl)	2.41 ± 0.9	1.77 ± 0.5	1.56 ± 0.56	2.96 ± 1.27
	MO (K/µl)	0.09 ± 0.04	0.07 ± 0.02	0.09 ± 0.04	0.09 ± 0.09
	EO(K/µl)	0.04 ± 0.03	0.08 ± 0.07	0.12 ± 0.05	0.12 ± 0.1
	BA (K/µl)	0.01 ± 0.01	0.03 ± 0.03	0.02 ± 0.01	0.02 ± 0.02
	HCT (%)	43.6 ± 3.38	48.8 ± 1.84	50.8 ± 5.69	51.7 ± 4.28
	RBC (M/µl)	8.6 ± 0.35	8.9 ± 0.25	10 ± 0.53	10 ± 0.58
	Hb (g/dL)	13.7 ± 0.62	14.3 ± 0.65	16.5 ± 1.3	17 ± 0.55
	MCV (fL)	50.5 ± 2.9	54.7 ± 3.1	50.3 ± 3.6	50 ± 2.8
	MCH (pg)	15.9 ± 0.63	16.1 ± 0.52	16.4 ± 0.67	16.4 ± 0.44
	MCHC (g/dL)	31.5 ± 1.84	29.5 ± 2.2	32.7 ± 2	33 ± 1.8
	MPV (fL)	6.6 ± 0.8	7.5 ± 1.2	8.2 ± 1.3	10.3 ± 0.6
PDW (%)	44 ± 1.8	43.9 ± 2	54 ± 6.7	45.6 ± 5.4	
Coagulation	D-Dimer (ng/ml)	<400	<400	<400	<400
Pro-inflammatory cytokines	TGF-β1 (pg/ml)	ND	ND	ND	ND

Serum chemistry, blood cell counts, coagulation factors and pro-inflammatory cytokines were determined in peripheral blood samples collected from mice immediately before (= control) or at the indicated time points after i.m. exposure to ricin at a dose of 2LD50 (18 µg ricin/kg body weight). ND, not detected. Data represent mean ± STD; *n* = 4-5 (serum chemistry), *n* = 3 (blood cell counts), *n* = 5-20 (coagulation), *n* = 5-10 (cytokines).