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

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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 ± 0.1 | 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 (µg)                | 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).