

Supplementary Table 1. MR imaging parameters

Sequence	Matrix	Section thickness (mm)	Repetition time (ms)/ Echo time (ms)	Flip angle (°)	Field of view (read × phase, mm)	No. of signals acquired
Unenhanced T1-weighted VIBE	192×192	5	5.49/2.77	11	96×96	1
Coronal T2-weighted TSE	256×218	2	6,960/77	140	100×75	6
Transverse T2-weighted TSE	256×218	2	6,960/77	140	100×75	6
DW SSSE EP imaging	96×96	2	3,000/69	90 (excitation), 180 (refocusing)	96×96	12

MR, magnetic resonance; VIBE, volumetric interpolated breath-hold examination; TSE, turbo spin echo; SSSE, single-shot spin echo; EP, echo planar.

Supplementary Table 2. Comparison of laboratory values in each experimental group after treatment

	Dox-NP-MB (n=8)	Dox (n=7)	NP-MB (n=7)	Control (n=6)	P-value
WBC (×10 ³ cells/μL)	1.75 (1.53–2.77)	1.20 (0.89–1.51)	6.87 (4.29–10.62)	7.59 (6.60–8.92)	<0.001
RBC (×10 ⁶ cells/μL)	8.65 (7.67–8.80)	7.60 (7.29–8.62)	8.01 (5.74–8.35)	8.11 (7.73–8.33)	0.319
HGB (g/dL)	16.25 (14.80–16.55)	14.70 (14.15–16.40)	15.90 (11.38–17.03)	16.95 (15.50–17.30)	0.363
HCT (%)	50.65 (47.15–51.05)	45.80 (43.70–52.30)	49.10 (34.83–52.15)	52.45 (48.90–53.90)	0.236
MCV (fL)	58.95 (57.50–62.25)	58.50 (58.15–63.50)	64.40 (59.20–66.38)	63.55 (59.60–64.10)	0.127
MCH (pg)	18.95 (18.75–19.85)	19.10 (18.93–19.38)	20.80 (19.38–21.18)	20.20 (19.40–20.90)	0.074
MCHC (g/dL)	32.10 (31.80–32.95)	32.60 (32.25–32.93)	32.40 (32.13–32.75)	32.15 (31.80–32.50)	0.544
CHCM (g/dL)	32.10 (31.25–33.30)	32.70 (32.30–33.58)	31.80 (30.28–32.80)	31.90 (31.60–32.40)	0.271
RDW (%)	12.15 (11.80–12.60)	12.60 (12.45–13.25)	12.40 (11.93–13.05)	12.15 (12.00–12.20)	0.291
HDW (g/dL)	2.35 (2.23–2.43)	2.41 (2.33–2.70)	2.40 (2.16–2.49)	2.33 (2.20–2.48)	0.762
CH (pg)	18.90 (18.75–19.75)	19.50 (18.93–19.60)	19.60 (19.13–20.35)	20.15 (19.90–20.5)	0.165
CHDW (pg)	2.56 (2.47–2.63)	2.58 (2.53–2.80)	2.63 (2.56–2.77)	2.66 (2.56–2.74)	0.317
PLT (×10 ³ cells/μL)	991.50 (793.00–1,435.50)	651.00 (424.50–809.00)	864.00 (337.50–1,087.75)	790.50 (592.00–1,009.00)	0.148
MPV (fL)	7.10 (6.65–7.95)	7.40 (6.85–7.60)	7.80 (6.15–11.20)	7.15 (6.30–7.90)	0.898
PDW (%)	74.45 (63.50–96.15)	76.10 (68.05–89.98)	70.20 (64.90–99.50)	69.30 (62.70–80.00)	0.846
PCT (%)	0.76 (0.60–0.98)	0.48 (0.32–0.57)	0.63 (0.35–0.64)	0.59 (0.49–0.73)	0.078
BUN (mg/dL)	20.15 (15.75–21.55)	20.90 (16.23–24.60)	17.30 (15.30–21.75)	19.50 (18.10–20.60)	0.815
Cr (mg/dL)	0.50 (0.42–0.57)	0.52 (0.32–0.60)	0.55 (0.51–0.61)	0.51 (0.40–0.68)	0.855
TP (g/dL)	5.00 (4.90–5.40)	4.60 (4.60–4.75)	5.10 (4.95–5.85)	5.70 (5.50–5.80)	0.002
ALB (g/dL)	1.90 (1.70–1.90)	1.70 (1.28–1.88)	2.10 (2.00–2.30)	2.20 (2.20–2.20)	0.002
T-BIL (mg/dL)	0.02 (0.01–0.04)	0.01 (0.00–0.02)	0.01 (0.00–0.02)	0.02 (0.01–0.03)	0.715
ALP (U/L)	581.00 (451.00–761.00)	774.00 (618.50–1,006.00)	774.00 (618.50–1,006.00)	614.50 (556.00–653.00)	0.545
AST (U/L)	211.50 (176.50–299.50)	125.00 (93.50–141.75)	248.00 (171.75–440.75)	240.00 (190.00–274.00)	0.011
ALT (U/L)	80.00 (71.50–107.50)	58.00 (53.00–64.00)	79.00 (61.50–117.50)	68.00 (64.00–95.00)	0.018
GGT (U/L)	3.00 (1.00–3.50)	1.00 (1.00–4.75)	1.00 (1.00–4.75)	1.00 (1.00–3.00)	0.419
CPK (U/L)	2,651.50 (998.50–4,809.50)	3,090.00 (1,110.25–4,659.25)	1,491.00 (957.75–4,422.50)	1,722.50 (1,562.00–2,009.00)	0.973
A/G	0.60 (0.50–0.65)	0.60 (0.43–0.60)	0.60 (0.60–0.70)	0.60 (0.60–0.70)	0.187
B/C	43.17 (37.31–45.83)	42.08 (40.33–57.83)	32.08 (27.10–40.49)	36.02 (28.82–48.50)	0.485

Values are presented as median (interquartile range).

P-values were obtained from Kruskal-Wallis testing.

Dox-NP-MB, doxorubicin-nanoparticle-microbubble; Dox, doxorubicin; NP-MB, nanoparticle-microbubble; WBC, white blood cell; RBC, red blood cell; HGB, hemoglobin; HCT, hematocrit; MCV, mean corpuscular volume; MCH, mean corpuscular hemoglobin; MCHC, mean corpuscular hemoglobin concentration; CHCM, cell hemoglobin concentration mean; RDW, red cell distribution width; HDW, hemoglobin distribution width; CH, cell hemoglobin; CHDW, cell hemoglobin distribution width; PLT, platelet; MPV, mean platelet volume; PDW, platelet distribution width; PCT, plateletcrit; BUN, blood urea nitrogen; Cr, creatinine; TP, total protein; ALB, albumin; T-BIL, total bilirubin; ALP, alkaline phosphatase; AST, aspartate aminotransferase; ALT, alanine aminotransferase; GGT, gamma glutamyl transferase; CPK, creatinine phosphokinase; A/G, albumin to globulin ratio; B/C, blood urea nitrogen to creatinine ratio.