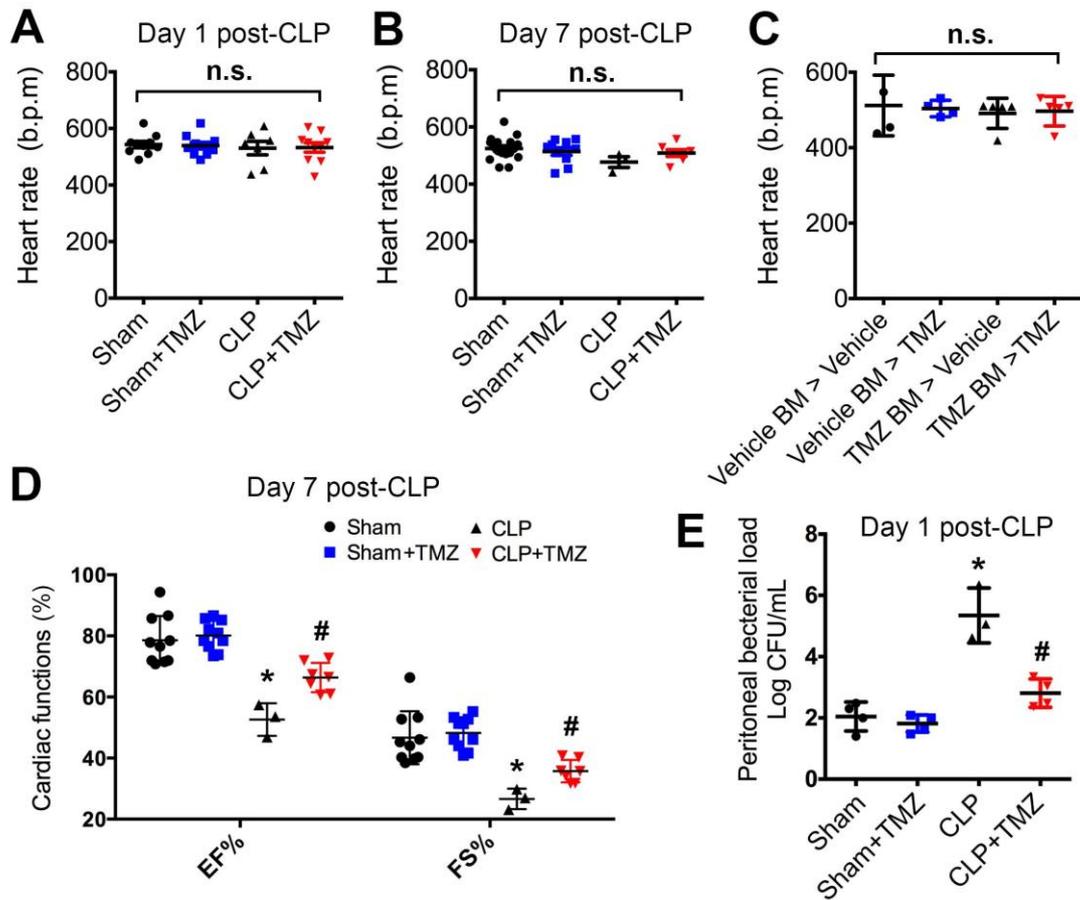


# Supplementary materials

## **Trimetazidine attenuates cardiac dysfunction in endotoxemia and sepsis by promoting neutrophil migration**

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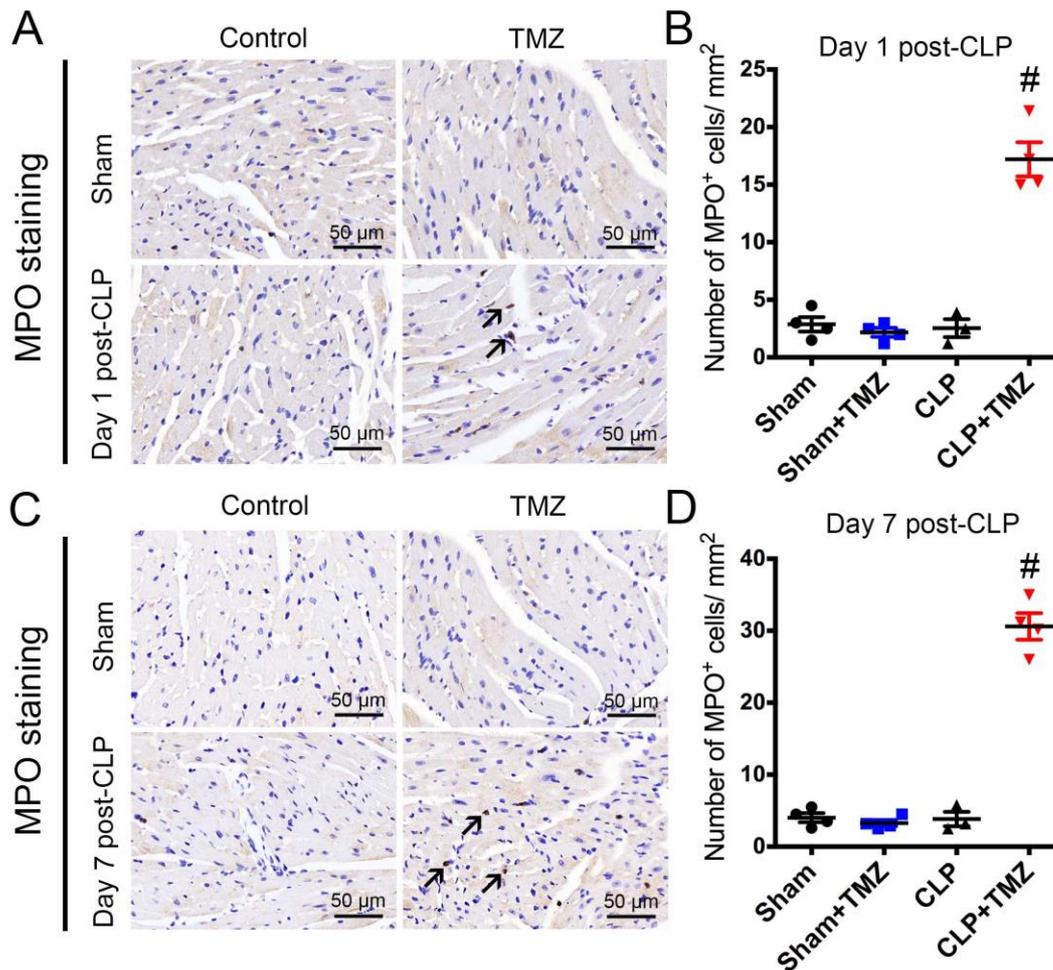
Supplementary Figure 1:



**Supplementary Figure 1: TMZ treatment attenuates cardiac function post-CLP.**

Mice were treated with TMZ (20 mg/kg/day) for 7 consecutive days post CLP or sham operation. 1 day and 7 days post CLP, the cardiac function of mice was assessed by echocardiography; (A) Heart rate on day 1 post CLP; (B) Heart rate on day 7 post CLP; (C) Irradiated TMZ pretreated (20 mg/kg/day) and vehicle pretreated wild-type (WT) mice received either vehicle or TMZ pretreated bone marrow and were subjected to CLP surgery. Heart rate on day 1 post-CLP. (D) Statistical analysis of echocardiographic results post-CLP. (E) Colony-forming units (CFU) in peritoneal exudates 1 day after CLP. Data were presented as mean  $\pm$  SEM of three independent experiments. \* $P < 0.05$  vs. Sham mice; # $P < 0.05$  vs. CLP mice. The n.s. indicates no significance.

Supplementary Figure 2:



**Supplementary Figure 2: TMZ increased neutrophil migration to heart tissue in CLP-induced sepsis.** Mice were treated with TMZ (20 mg/kg/day) for 7 consecutive days post CLP or sham operation, 1 day and 7 days post CLP. (A) Representative images of heart tissues immunostained with MPO on day 1 post-CLP. Scale bar: 50  $\mu\text{m}$ . (B) Quantification of MPO positive cells in  $1\text{mm}^2$  on day 1 post-CLP. (C) Representative images of heart tissues immunostained with MPO on day 7 post-CLP. Scale bar: 50  $\mu\text{m}$ . (D) Quantification of MPO positive cells in  $1\text{mm}^2$  on day 7 post-CLP. Data were presented as mean  $\pm$  SEM of three independent experiments. #P < 0.05 vs. CLP mice. (n = 3-4 per each group)