Levosimendan can cause vasodilation and increased heart rate. If blood pressure drops a fluid bolus should be given, volume status reassessed and treated, and vasopressors titrated.

**Hypotension and tachycardia definitions**
- Unable to maintain target MAP despite fluids & vasopressors
- HR >130 or
\[ \text{HR} \geq 20\% \text{ (if already >110)} \]

**LeoPARDS study drug infusion protocol**

Seek & correct causes of hypotension
Ensure adequate volume replacement
Start study drug infusion at rate A
Note time, HR, MAP & vasopressor infusion rate

Assess physiological effects over 2-4 hours

No hypotension, tachycardia

Increase infusion to rate 2A

Continue to assess physiological effects and continue infusion at rate 2A

Decrease infusion to rate \( \frac{1}{2} A \)

Hypotension or tachycardia

Decrease infusion to rate \( \frac{1}{4} A \)

Assess physiological effects over 4-8 hours

Hypotension or tachycardia

Stop study drug infusion

All study drug infusions should stop at 24 hours