

**Supplemental Digital Content 5:** Diaphragm MuRF-1 protein expression in the Control group (Con), and Interventional group treated with 24 hrs of MV under pentobarbital exposure (P-CMV) or under dexmedetomidine exposure (D-CMV). MuRF-1 data are normalized to  $\alpha$ -tubulin. Values are displayed as means  $\pm$  SD. All Data presented as integrated density value (IDV).

