Normal parameters used are the default parameters in Harvi.online (Pvloops.com). LV end-systolic elastance ranged from 2.21 (normal) to 0.7 mmHg/ml (severe heart failure). Systemic and Pulmonary characteristic impedance (Rcs, Rcp), venous resistance (Rvs, Rvp), pulmonary arterial resistance (Rap), and valvular (mitral and tricuspid) resistance (Rmv, Rtv) remained constant at default values. Circulating blood volume and Systemic arterial resistance (Ras) were varied to adjust LV SV and mABP as described in the methods section. VA ECMO translocated volume from the systemic venous compartment (Cvs) to the systemic arterial compartment (Cas); RPMs of the device was adjusted to a target flow rate of 3.5 L/min.