

Multimedia Appendix 1: Tasks assessed by the users while handling a MVVS, simulating invasive MV scenarios

1. Check whether English language is available
2. Adjust tidal volume for a male adult patient, 70kg
3. Considering the settings for the patient in task 2, adjust to VCV mode
4. Calculate the plateau
5. Calculate and identify the presence of auto-peep
6. Considering the settings for the patient in task 2, adjust to PCV mode
7. Adjust the  $F_{I}O_2$  to 50% and verify the  $PaO_2$  and  $SpO_2$
8. Indicate the volume, pressure and flow curves
9. Set the maximum pressure alarm
10. Considering the settings for the patient in task 2, adjust to PSV mode
11. Save the simulation