

Experimental data in support of BathRC ventilation model

Issue 1.0

Data for two VT+ HF flow analyzers provided in vt_plus_hf_1 and vt_plus_hf_2 folders. Flow analyzers are labelled "1" and "2" in diagrams below.

For each test case three data files are provided: VTP are raw data files from flow analyzer. SIG are raw timeseries data, human readable. PAR are summary results processed on flow analyzers, human readable.

test case	circuit	Pinsp	Respiration rate	I:E ratio	PEEP	test lung	flow restrictor
		(cm H2O)	(breaths/min)		(cm H2O)		
v22	circuit 1	25	15	1:2		5 lung 1	non-return valve (Intersurgical 1950000)
v23	circuit 1	15	15	1:2		5 lung 1	non-return valve (Intersurgical 1950000)
v24	circuit 1	5	15	1:2		5 lung 1	non-return valve (Intersurgical 1950000)
v112	circuit 1	25	15	1:2		5 lung 1	small orifice restrictor (equivalent cross-section 11.7 mm ²)
v113	circuit 1	15	15	1:2		5 lung 1	small orifice restrictor (equivalent cross-section 11.7 mm ²)
v114	circuit 1	5	15	1:2		5 lung 1	small orifice restrictor (equivalent cross-section 11.7 mm ²)
v43	circuit 2	25	15	1:2		5 lung 1	N/A
v44	circuit 2	15	15	1:2		5 lung 1	N/A
v45	circuit 2	5	15	1:2		5 lung 1	N/A
M28	circuit 4	25	15	1:2		5 lung 1	N/A
M26	circuit 4	15	15	1:2		5 lung 1	N/A
M16	circuit 4	25	15	1:2		5 lung 2	N/A
M14	circuit 4	15	15	1:2		5 lung 2	N/A
v52	circuit 2	25	15	1:2		5 2.24 m tube	N/A
v53	circuit 2	15	15	1:2		5 2.24 m tube	N/A
v54	circuit 2	5	15	1:2		5 2.24 m tube	N/A
v58	circuit 3	25	15	1:2		5 lungs 1 & 2	none (straight coupler)
v59	circuit 3	15	15	1:2		5 lungs 1 & 2	none (straight coupler)
v80	circuit 3	25	15	1:2		5 lungs 1 & 2	non-return valve (Intersurgical 1950000)
v81	circuit 3	15	15	1:2		5 lungs 1 & 2	non-return valve (Intersurgical 1950000)
v74	circuit 3	25	15	1:2		5 lungs 1 & 2	small orifice restrictor (equivalent cross-section 11.7 mm ²)

