

SUPPLEMENTARY MATERIAL

Table S1: P-values (using Mann-Whitney U Test) for the stratification analysis data for the effect of BMI on DP (A). PIP (B). Pplat (C) and Compliance (D)

A. DP Data									
		T1	T2	T3	T4	T5	T6	T7	T8
MIN	Average	7.30	7.40	11.80	12.60	14.00	11.30	8.50	6.80
	STD	1.95	2.07	1.40	2.22	2.49	4.19	1.96	1.55
MAX	Average	11.20	10.70	16.90	17.70	18.00	15.60	13.70	8.70
	STD	3.19	2.87	3.90	4.14	3.97	3.31	3.09	3.77
	p-value	0.031	0.025	0.0022	0.0003	0.014	0.0036	0.0073	0.241

B. PIP Data									
		T1	T2	T3	T4	T5	T6	T7	T8
MIN	Average	13.90	14.00	19.40	18.80	20.50	18.00	15.50	14.40
	STD	1.60	1.89	2.76	2.15	1.72	4.78	2.42	4.88
MAX	Average	18.20	17.10	23.70	24.20	25.00	22.70	21.50	15.20
	STD	3.29	2.85	4.22	5.59	4.88	3.50	3.24	3.74
	p-value	0.0022	0.0004	0.037	0.0017	0.0017	0.045	0.0003	0.24

C. Pplat Data									
		T1	T2	T3	T4	T5	T6	T7	T8
MIN	Average	12.30	12.40	18.20	17.60	19.00	16.30	13.50	11.80
	STD	1.95	2.07	2.15	2.22	2.49	4.19	1.96	1.55
MAX	Average	16.20	15.30	21.60	21.90	23.00	20.60	18.70	13.70
	STD	3.19	2.83	3.78	4.79	3.97	3.31	3.09	3.77
	p-value	0.0006	0.0003	0.045	0.006	0.009	0.045	0.004	0.062

D. ComplianceData									
		T1	T2	T3	T4	T5	T6	T7	T8
MIN	Average	67.00	62.70	33.80	36.20	33.20	43.50	54.50	77.40
	STD	10.68	10.89	5.75	6.80	4.66	5.15	11.74	9.52
MAX	Average	47.20	46.80	27.00	26.20	27.00	31.50	37.80	65.60
	STD	11.81	12.80	4.94	7.93	6.20	6.13	8.02	15.20
	p-value	0.01	0.01	0.0046	0.009	0.025	0.03	0.021	0.065

Table S2: P-values (using Mann-Whitney U Test) for the stratification analysis data for the effect of initial Compliance (CdynT1) on Pplat (A). PIP (B). DP (C) and Compliance (D)

A. Pplat Data									
		T1	T2	T3	T4	T5	T6	T7	T8
MIN	Average	16.50	16.10	23.10	22.70	22.50	19.40	17.50	14.00
	STD	2.46	2.56	2.64	3.86	4.38	3.44	2.84	3.59
MAX	Average	11.60	12.00	17.60	17.70	19.40	17.20	14.00	12.00
	STD	1.17	0.82	2.12	1.64	3.24	4.59	3.77	2.05
	p-value	0.0018	0.0018	0.00029	0.0003	0.054	0.795	0.089	0.168

B. PIP Data									
		T1	T2	T3	T4	T5	T6	T7	T8
MIN	Average	17.70	17.60	25.40	25.00	24.50	21.10	20.20	15.10
	STD	2.63	2.50	2.88	4.62	4.74	3.63	2.94	3.63
MAX	Average	13.30	13.60	18.90	19.60	21.30	19.20	16.10	14.60

	STD	1.16	0.84	2.13	2.55	3.53	5.61	4.33	4.88
	p-value	0.0013	0.0013	0.0002	0.009	0.09	0.2161	0.0531	0.734

C. DP Data									
		T1	T2	T3	T4	T5	T6	T7	T8
MIN	Average	11.50	11.10	18.10	17.70	17.50	14.40	12.50	9.10
	STD	2.46	2.56	2.64	3.86	4.38	3.44	2.84	3.54
MAX	Average	6.60	7.00	13.30	12.70	14.40	12.20	9.00	7.00
	STD	1.17	0.82	1.49	1.64	3.24	4.59	3.77	2.05
	p-value	0.0001	0.0006	0.001	0.0016	0.4219	0.125	0.0512	0.101

D. Compliance Data									
		T1	T2	T3	T4	T5	T6	T7	T8
MIN	Average	42.10	43.70	25.00	25.00	25.60	34.10	36.80	57.50
	STD	5.99	12.37	4.47	5.33	6.52	8.50	7.51	8.17
MAX	Average	71.60	67.90	34.60	34.90	34.50	43.50	59.60	81.90
	STD	2.95	3.67	5.99	7.81	5.04	12.70	12.68	4.58
	p-value	0.0001	0.0004	0.0039	0.005	0.011	0.25	0.0035	0.0002

Table S3: P-values (using Mann-Whitney U Test) for the stratification analysis data for the effect of initial DP (DP_T1) on DP (A). PIP (B). Pplat (C) and Compliance (D).

A. DP Data									
		T1	T2	T3	T4	T5	T6	T7	T8

MIN	Average	6.10	6.70	12.70	11.50	13.30	11.20	8.00	6.80
	STD	0.74	0.67	1.25	2.37	2.67	4.42	1.94	2.10
MAX	Average	12.20	11.10	17.80	16.90	17.00	14.20	12.90	9.20
	STD	2.35	2.56	3.16	4.75	4.59	3.33	2.73	3.52
	p-value	0.00004	0.00075	0.00147	0.01373	0.06629	0.13806	0.00174	0.11286

B. PIP Data									
		T1	T2	T3	T4	T5	T6	T7	T8
MIN	Average	12.80	13.30	18.90	18.30	20.00	17.70	14.90	14.40
	STD	1.14	0.82	1.60	3.20	1.70	5.21	2.02	4.99
MAX	Average	18.50	17.50	25.00	24.00	24.10	20.80	20.10	15.10
	STD	2.59	2.64	3.59	5.60	4.95	3.49	2.92	3.63
	p-value	0.000192	0.001359	0.001188	0.026376	0.043421	0.192	0.0010	0.7913

C. Pplat Data									
		T1	T2	T3	T4	T5	T6	T7	T8
MIN	Average	11.10	11.70	17.70	16.50	18.30	16.20	13.00	11.80
	STD	0.74	0.67	1.25	2.37	2.67	4.42	1.94	2.10
MAX	Average	17.20	16.10	22.80	21.90	22.00	19.20	17.90	14.10
	STD	2.35	2.56	3.16	4.75	4.59	3.33	2.73	3.57
	p-value	0.00018	0.0002	0.0007	0.01073	0.04629	0.23806	0.0022	0.23020

D. ComplianceData									
		T1	T2	T3	T4	T5	T6	T7	T8
MIN	Average	68.90	65.30	34.80	37.90	34.10	45.70	59.10	78.90
	STD	6.87	7.57	5.81	8.16	4.75	12.25	12.63	6.77

MAX	Average	43.10	44.90	25.80	27.10	26.20	34.30	35.40	58.30
	STD	6.59	12.55	5.47	8.24	7.11	8.45	6.65	9.39
	p-value	0.00018	0.00290	0.008085	0.040898	0.009	0.027100	0.0018	0.0021

Table S4: P-values (using Mann-Whitney U Test) for the stratification analysis data for the effect of initial Pplat (Pplat_T1) on Pplat (A). PIP (B). DP (C) and Compliance (D).

A. Pplat Data									
		T1	T2	T3	T4	T5	T6	T7	T8
MIN	Average	11.10	11.70	17.70	16.50	18.30	16.20	13.00	11.80
	STD	0.74	0.67	1.25	2.37	2.67	4.42	1.94	2.10
MAX	Average	17.20	16.40	22.60	21.70	22.40	19.80	17.90	14.40
	STD	2.35	2.59	3.34	4.88	4.17	3.01	2.73	3.31
	p-value	0.0002	0.0003	0.002593	0.031	0.014	0.074090	0.0033	0.065

B. PIP Data									
		T1	T2	T3	T4	T5	T6	T7	T8
MIN	Average	12.80	13.30	18.90	18.30	20.00	17.70	14.90	14.40
	STD	1.14	0.82	1.60	3.20	1.70	5.21	2.02	4.99
MAX	Average	18.50	17.80	24.80	23.70	24.70	21.50	20.30	16.00
	STD	2.59	2.62	3.77	5.79	4.16	3.10	2.67	3.33
	p-value	0.00018	0.0092	0.0018	0.0423	0.007032	0.1212	0.003	0.245

C. DP Data									
		T1	T2	T3	T4	T5	T6	T7	T8
MIN	Average	6.10	6.70	12.70	11.50	13.30	11.20	8.00	6.80
	STD	0.74	0.67	1.25	2.37	2.67	4.42	1.94	2.10
MAX	Average	12.20	11.40	17.60	16.70	17.40	14.80	12.90	9.50
	STD	2.35	2.59	3.34	4.88	4.17	3.01	2.73	3.24

	p-value	0.000189	0.00058	0.0089	0.0028	0.031	0.1030	0.00035	0.058
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D. ComplianceData									
		T1	T2	T3	T4	T5	T6	T7	T8
MIN	Average	68.90	65.30	34.80	37.90	34.10	45.70	59.10	78.90
	STD	6.87	7.57	5.81	8.16	4.75	12.25	12.63	6.77
MAX	Average	45.70	46.30	26.20	28.60	25.50	33.20	36.00	59.90
	STD	9.65	12.96	5.39	8.95	6.10	8.04	7.53	10.10
	p-value	0.000439	0.00727	0.0127	0.0414	0.0044	0.001	0.0092	0.0008

Table S5: P-values (using Mann-Whitney U Test) for the initial dataset of 31 patients.

Demographics																
A ge	Hei ght	We igh t	IB W	B M I	Total Cryst alloids	To tal EP H E	Pro pofo l (mg)	Surgery duratio n	Anesthesi aduration							
0.98	0.45	0.94	0.36	0.68	0.09	0.64	0.53	0.58	0.45							
T1																
M A P	HR	Sp O2	R a w	PI P	Pplat	PE EP	DP	VT	Cdyn	R R	PaO2 /FiO2	Et CO 2	Pa CO 2	H C O3	p H	
0.66	0.62	0.06	0.75	0.64	0.57	1.00	0.57	0.35	0.37	0.08	0.0	0.98	0.77	0.07	0.07	
T2																
M A P	HR	Sp O2	R a w	PI P	Pplat	PE EP	DP	VT	Cdyn	R R	PaO2 /FiO2	Et CO 2	Pa CO 2	H C O3	p H	
0.27	0.29	0.36	0.18	0.15	0.41	1.00	0.41	0.35	0.63	0.09	0.98	0.88	0.92	0.06	0.12	
T3																
M A P	HR	Sp O2	R a w	PI P	Pplat	Pe ep	DP	VT	Cdyn	R R	PaO2 /FiO2	Et CO 2	Pa CO 2	H C O3	p H	

0.59	0.25	0.41	0.89	0.92	0.92	1.00	0.63	0.35	0.53	0.43	0.11	0.81	0.55	0.59	0.25
T4															
M A P	HR	Sp O2	R a w	PI P	Pplat	PE EP	DP	VT	Cdyn	R R	PaO2 /FiO2	Et CO 2	Pa CO 2	H C O3	p H
0.94	0.34	0.30	0.81	0.94	0.89	1.00	0.89	0.48	0.66	0.52	0.55	0.55	0.89	0.07	0.25
T5															
M A P	HR	Sp O2	R a w	PI P	Pplat	PE EP	DP	VT	Cdyn	R R	PaO2 /FiO2	Et CO 2	Pa CO 2	H C O3	p H
0.69	0.33	0.06	1.00	0.90	0.58	1.00	0.58	0.09	0.75	0.31	0.25	0.06	0.38	0.51	0.59
T6															
M A P	HR	Sp O2	R a w	PI P	Pplat	PE EP	DP	VT	Cdyn	R R	PaO2 /FiO2	Et CO 2	Pa CO 2	H C O3	p H
0.50	0.89	0.40	0.68	0.51	0.54	1.00	0.54	0.23	0.42	0.61	0.24	0.20	0.25	0.98	0.95
T7															
M A P	HR	Sp O2	R a w	PI P	Pplat	Pe ep	DP	VT	Cdyn	R R	PaO2 /FiO2	Et CO 2	Pa CO 2	H C O3	p H
0.95	0.21	0.16	0.76	0.47	1.00	1.00	1.00	0.23	0.61	0.37	0.37	0.52	0.37	0.31	0.62
T8															
M A P	HR	Sp O2	R a w	PI P	Pplat	PE EP	DP)	VT	Cdyn	R R	PaO2 /FiO2	Et CO 2	Pa CO 2	H C O3	p H
0.17	0.39	0.06	0.98	0.53	0.55	1.00	0.51	0.53	0.45	0.06	0.31	0.09	0.48	0.18	0.27