

Table S1: Association of phase with all outcome variables					
Response variable	Levels	Phase 1	Phase 2	Statistic	P
Hospital ID	No/Yes	12.4/87.6	5/95	16.300	<0.001
Visit ID	No/Yes	37.4/62.6	35.3/64.7	0.402	0.526
Surgery date	No/Yes	0.2/99.8	0/100	<0.001	1.000
Age	No/Yes	44.3/55.7	23.8/76.2	45.800	<0.001
Name	No/Yes	1.8/98.2	0.8/99.2	1.250	0.264
Gender	No/Yes	2.6/97.4	4/96	1.130	0.288
Weight	No/Yes	25.2/74.8	24.8/75.2	0.005	0.942
ASA grade	No/Yes	9.2/90.8	5.2/94.8	5.400	0.020
Allergy details	No/Yes	35.8/64.2	41/59	2.640	0.104
Diagnosis details	Complete/No/Partial	70.4/17.8/11.8	66.6/9.6/23.8	33.000	<0.001
Surgery details	Complete/No/Partial	68.2/18/13.8	59/12/29	36.300	<0.001
Surgeon name	No/Yes	33.8/66.2	18.8/81.2	28.300	<0.001
Anaesthesia faculty name	No/Yes	4.6/95.4	3/97	1.340	0.247
Anaesthesia resident name	No/Yes	14/86	22.2/77.8	10.800	0.001
Anaesthesia start time	No/Yes	0.8/99.2	0/100	2.260	0.133
Surgery start time	No/Yes	0/100	0.4/99.6	0.501	0.479
Anaesthesia close time	No/Yes	2/98	2.8/97.2	0.384	0.535
Surgery close time	No/Yes	4.2/95.8	4.6/95.4	0.024	0.877
Fluid intake	No/Yes	4/96	4.8/95.2	0.214	0.644
Urine output	No/Yes	25.6/74.4	25.4/74.6	<0.001	1.000
Blood group	No/Yes	11.8/88.2	17.4/82.6	5.850	0.016
Blood loss	No/Yes	26.6/73.4	30/70	1.260	0.261
Intubation time	No/Yes	1.613/98.387	0.808/99.192	0.753	0.386
ETT size	No/Yes	1.81/98.19	1.22/98.78	0.259	0.611
Cormack Lehane grade	No/Yes	5.02/94.98	5.83/94.17	0.143	0.705
Length of ETT fixation	No/Yes	98.79/1.21	99.797/0.203	2.280	0.131
Intubation technique	No/Yes	6.65/93.35	11.18/88.82	5.690	0.017
Position details	No/Yes	3.4/96.6	3/97	0.032	0.857
Protection	No/Yes	57.4/42.6	49.4/50.6	6.110	0.013
Loco-regional analgesia details	Complete/No/Partial	16.8/79.4/3.8	22.89/75.7/1.41	10.600	0.005
Intravenous access details	Complete/No/Partial	97.4/2.2/0.4	98.4/1.4/0.2	1.250	0.536
Intraoperative drug details	Complete/No/Partial	90.0/2/9.8	94.6/0.2/5.2	7.630	0.022
Antibiotic details	Complete/No/Partial	93.2/2.8/4	92.4/7.2/0.4	24.400	<0.001
Extubation time	No/Yes	54.5/45.5	61.9/38.1	4.900	0.027
NMB Reversal details	Complete/No/Partial	58.367/40.816/0.816	49.263/49.684/1.053	8.050	0.018
Postoperative instructions	Complete/No/Partial	47.4/35.6/17	73.2/19.6/7.2	70.600	<0.001
Postoperative recovery details	Complete/No/Partial	53.6/34/12.4	62.53/33.07/4.41	22.500	<0.001
Extubation	No/Yes	52.5/47.5	46.1/53.9	3.880	0.049
Extubation site	No/Yes	45.5/54.5	34.5/65.5	11.900	0.001
Transfer details	No/Yes	73.4/26.6	67.1/32.9	4.400	0.036
Anaesthesiologist signature	No/Yes	87.6/12.4	82.2/17.8	5.340	0.021

ETT – Endotracheal tube size, NMB – Neuromuscular blockade, Descriptives presented are percentages.  $P < 0.05$  is statistically significant

**Table S2: Association of case number with all outcome variables**

Response variable	Levels	First case	Second case	Statistic	P
Hospital ID	No/Yes	8.77/91.23	8.61/91.39	<0.001	1.000
Visit ID	No/Yes	36.8/63.2	35.7/64.3	0.085	0.770
Surgery date	No/Yes	0.166/99.834	0/100	<0.001	1.000
Age	No/Yes	32.6/67.4	36.3/63.7	1.280	0.258
Name	No/Yes	0.993/99.007	1.772/98.228	0.603	0.437
Gender	No/Yes	2.98/97.02	3.8/96.2	0.276	0.599
Weight	No/Yes	20.7/79.3	31.6/68.4	14.700	<0.001
ASA grade	No/Yes	6.95/93.05	7.59/92.41	0.067	0.796
Allergy details	No/Yes	33.9/66.1	45.3/54.7	12.600	<0.001
Diagnosis details	Complete/No/Partial	71/11.6/17.4	64.6/17/18.5	6.650	0.036
Surgery details	Complete/No/Partial	66.9/12.7/20.4	58.5/18.5/23	8.680	0.013
Surgeon name	No/Yes	22.8/77.2	31.6/68.4	9.080	0.003
Anaesthesia faculty name	No/Yes	2.81/97.19	5.32/94.68	3.430	0.064
Anaesthesia resident name	No/Yes	18.2/81.8	18/82	<0.001	0.991
Anaesthesia start time	No/Yes	0.166/99.834	0.759/99.241	0.886	0.347
Surgery start time	No/Yes	0.331/99.669	0/100	0.177	0.674
Anaesthesia close time	No/Yes	1.82/98.18	3.29/96.71	1.620	0.203
Surgery close time	No/Yes	4.47/95.53	4.3/95.7	<0.001	1.000
Fluid intake	No/Yes	3.48/96.52	5.82/94.18	2.590	0.108
Urine output	No/Yes	20.4/79.6	33.4/66.6	20.700	<0.001
Blood group	No/Yes	12.4/87.6	18/82	5.470	0.019
Blood loss	No/Yes	23.7/76.3	35.4/64.6	15.700	<0.001
Intubation time	No/Yes	1.16/98.84	1.29/98.71	<0.001	1.000
Endotracheal tube size	No/Yes	1.16/98.84	2.07/97.93	0.765	0.382
Cormack Lehane grade	No/Yes	4.98/95.02	6.21/93.79	0.397	0.529
Length of ETT fixation	No/Yes	99.169/0.831	99.482/0.518	0.033	0.855
Intubation technique	No/Yes	8.65/91.35	9.33/90.67	0.062	0.804
Position details	No/Yes	2.48/97.52	4.3/95.7	2.000	0.157
Protection	No/Yes	51/49	57.2/42.8	3.470	0.063
Loco-regional analgesia details	Complete/No/Partial	20.9/76.12/2.99	18.27/79.7/2.03	2.050	0.359
Intravenous access details	Complete/No/Partial	99.007/0.993/0	96.203/3.038/0.759	10.300	0.006
Intraoperative drug details	Complete/No/Partial	93.212/0.331/6.457	90.886/0/9.114	3.690	0.158
Antibiotic details	Complete/No/Partial	94.54/3.64/1.82	90.13/7.09/2.78	7.170	0.028
Extubation time	No/Yes	57.6/42.4	59.1/40.9	0.160	0.689
NMB Reversal details	Complete/No/Partial	53.152/45.826/1.022	55.172/44.032/0.796	0.464	0.793
Postoperative instructions	Complete/No/Partial	60.4/28/11.6	60/27.1/12.9	0.421	0.810
Postoperative recovery details	Complete/No/Partial	59.27/33.11/7.62	56.35/34.01/9.64	1.570	0.455
Extubation	No/Yes	49.5/50.5	48.8/51.2	0.019	0.891
Extubation site	No/Yes	39.2/60.8	41.2/58.8	0.307	0.580
Transfer details	No/Yes	67.9/32.1	74.1/25.9	4.140	0.042
Anaesthesiologist signature	No/Yes	83.1/16.9	87.8/12.2	3.770	0.052

ETT – Endotracheal tube size, NMB – Neuromuscular blockade, Descriptives presented are percentages.  $P < 0.05$  is statistically significant

**Table S3: Association of procedure type with all outcome variables**

Response variable	Levels	Elective	Emergency	Statistic	P
Hospital ID	No/Yes	6.59/93.41	7.5/92.5	<0.001	1.000
Visit ID	No/Yes	30.3/69.7	22.5/77.5	0.752	0.386
Surgery date	No/Yes	0.15/99.85	0/100	<0.001	1.000
Age	No/Yes	28.3/71.7	47.5/52.5	5.820	0.016
Name	No/Yes	0.599/99.401	0/100	<0.001	1.000
Gender	No/Yes	0.449/99.551	2.5/97.5	0.354	0.552
Weight	No/Yes	16.9/83.1	40/60	12.000	0.001
ASA grade	No/Yes	4.79/95.21	12.5/87.5	3.110	0.078
Allergy details	No/Yes	28/72	45/55	4.510	0.034
Diagnosis details	Complete/No/Partial	73.5/9.73/16.77	72.5/17.5/10	3.300	0.192
Surgery details	Complete/No/Partial	69.6/10/20.4	70/17.5/12.5	3.190	0.203
Surgeon name	No/Yes	20.1/79.9	52.5/47.5	21.400	<0.001
Anaesthesia faculty name	No/Yes	1.95/98.05	12.5/87.5	13.000	<0.001
Anaesthesia resident name	No/Yes	11.7/88.3	10/90	0.005	0.946
Anaesthesia start time	No/Yes	0.299/99.701	0/100	<0.001	1.000
Surgery start time	No/Yes	0.299/99.701	0/100	<0.001	1.000
Anaesthesia close time	No/Yes	1.95/98.05	0/100	0.081	0.776
Surgery close time	No/Yes	2.69/97.31	5/95	0.132	0.716
Fluid intake	No/Yes	3.44/96.56	2.5/97.5	<0.001	1.000
Urine output	No/Yes	21.1/78.9	27.5/72.5	0.575	0.448
Blood group	No/Yes	7.34/92.66	10/90	0.098	0.754
Blood loss	No/Yes	25.4/74.6	30/70	0.206	0.650
Intubation time	No/Yes	1.06/98.94	0/100	<0.001	1.000
Endotracheal tube size	No/Yes	1.06/98.94	0/100	<0.001	1.000
Cormack Lehane grade	No/Yes	3.23/96.77	2.86/97.14	<0.001	1.000
Length of ETT fixation	No/Yes	99.092/0.908	100/0	<0.001	1.000
Intubation technique	No/Yes	6.82/93.18	17.5/82.5	4.800	0.028
Position details	No/Yes	2.69/97.31	2.5/97.5	<0.001	1.000
Protection	No/Yes	45.2/54.8	70/30	8.350	0.004
Loco-regional analgesia details	Complete/No/Partial	22.97/74.17/2.85	20/75/5	0.735	0.693
Intravenous access details	Complete/No/Partial	99.251/0.599/0.15	100/0/0	0.302	0.860
Intraoperative drug details	Complete/No/Partial	93.56/0.15/6.29	90/0/10	0.912	0.634
Antibiotic details	Complete/No/Partial	94.461/4.79/0.749	97.5/2.5/0	0.761	0.684
Extubation time	No/Yes	54.5/45.5	63.6/36.4	0.727	0.394
NMB reversal details	Complete/No/Partial	55.97/42.95/1.09	47.37/52.63/0	1.660	0.435
Postoperative instructions	Complete/No/Partial	65/24.1/10.9	47.5/35/17.5	5.060	0.080
Postoperative recovery details	Complete/No/Partial	63.7/29.1/7.2	57.5/30/12.5	1.660	0.437
Extubation	No/Yes	43.8/56.2	65/35	6.020	0.014
Extubation site	No/Yes	34.7/65.3	42.5/57.5	0.696	0.404
Transfer details	No/Yes	63.9/36.1	77.5/22.5	2.500	0.114
Anaesthesiologist signature	No/Yes	80.1/19.9	95/5	4.530	0.033

ETT – Endotracheal tube size, NMB – Neuromuscular blockade, Descriptives presented are percentages.  $P < 0.05$  is statistically significant

**Table S4: Association of Anaesthesiologist's grade with all outcome variables**

Response Variable	Levels	First year	Second year	Third year	Faculty	Statistic	P
Hospital ID	No/Yes	12.56/87.44	4.02/95.98	2.99/97.01	11.18/88.82	23.100	<0.001
Visit ID	No/Yes	34.9/65.1	29.3/70.7	22.8/77.2	64.5/35.5	71.200	<0.001
Surgery date	No/Yes	0/100	0.402/99.598	0/100	0/100	2.980	0.395
Age	No/Yes	27.3/72.7	49.4/50.6	35.9/64.1	25/75	40.500	<0.001
Name	No/Yes	0.474/99.526	2.41/97.59	0/100	3.289/96.711	11.400	0.010
Gender	No/Yes	2.84/97.16	2.81/97.19	1.2/98.8	7.89/92.11	12.700	0.005
Weight	No/Yes	15.2/84.8	27.7/72.3	32.3/67.7	40.1/59.9	46.000	<0.001
ASA grade	No/Yes	7.11/92.89	8.03/91.97	2.4/97.6	10.53/89.47	8.670	0.034
Allergy details	No/Yes	37.2/62.8	30.9/69.1	27.5/72.5	66.4/33.6	65.000	<0.001
Diagnosis details	Complete/ No/Partial	67.3/11.85/20.85	75.9/14.86/9.24	80.24/3.59/16.17	47.37/27.63/25	67.900	<0.001
Surgery details	Complete/ No/Partial	61.61/13.03/25.36	71.89/14.86/13.25	75.45/3.59/20.96	43.42/32.89/23.68	75.800	<0.001
Surgeon name	No/Yes	23/77	24.9/75.1	22.8/77.2	37.5/62.5	13.600	0.004
Anaesthesia faculty name	No/Yes	0.948/99.052	1.205/98.795	2.395/97.605	17.763/82.237	95.000	<0.001
Anaesthesia resident name	No/Yes	3.555/96.445	0.402/99.598	2.994/97.006	98.684/1.316	834.000	<0.001
Anaesthesia start time	No/Yes	0.711/99.289	0.402/99.598	0/100	0/100	2.280	0.516
Surgery start time	No/Yes	0/100	0.402/99.598	0/100	0.658/99.342	3.250	0.355
Anaesthesia close time	No/Yes	1.9/98.1	2.01/97.99	2.4/97.6	3.95/96.05	2.220	0.528
Surgery close time	No/Yes	4.03/95.97	2.81/97.19	6.59/93.41	5.92/94.08	4.320	0.229
Fluid intake	No/Yes	2.84/97.16	4.82/95.18	3.59/96.41	9.21/90.79	11.000	0.012
Urine output	No/Yes	22.5/77.5	19.7/80.3	24/76	44.7/55.3	36.300	<0.001
Blood group	No/Yes	8.06/91.94	10.04/89.96	16.17/83.83	37.5/62.5	83.600	<0.001
Blood loss	No/Yes	27.5/72.5	19.7/80.3	27.5/72.5	44.7/55.3	29.600	<0.001
Intubation time	No/Yes	1.429/98.571	0.813/99.187	1.807/98.193	0.671/99.329	1.330	0.721
Endotracheal tube size	No/Yes	1.909/98.091	0.813/99.187	1.818/98.182	1.342/98.658	1.360	0.714
Cormack Lehane grade	No/Yes	5.39/94.61	3.24/96.76	6.9/93.1	7.86/92.14	4.170	0.244
Length of ETT fixation	No/Yes	99.045/0.955	99.593/0.407	99.394/0.606	99.329/0.671	0.700	0.873
Intubation technique	No/Yes	6.44/93.56	8.54/91.46	8.48/91.52	17.57/82.43	16.700	0.001
Position details	No/Yes	3.08/96.92	3.21/96.79	3.59/96.41	3.29/96.71	0.102	0.992
Protection	No/Yes	43.1/56.9	51.4/48.6	50.9/49.1	86.2/13.8	84.300	<0.001
Loco-regional analgesia details	Complete/ No/Partial	19.29/77.38/3.33	31.33/66.67/2.01	17.37/78.44/4.19	6.58/93.42/0	45.800	<0.001
Intravenous access details	Complete/ No/Partial	97.393/1.896/0.711	98.795/1.205/0	98.802/1.198/0	96.711/3.289/0	6.800	0.340
Intraoperative drug details	Complete/ No/Partial	91.706/0/8.294	92.771/0.402/6.827	92.814/0/7.186	92.105/0.658/7.237	3.800	0.704
Antibiotic details	Complete/ No/Partial	89.81/6.635/3.555	95.181/4.016/0.803	97.006/2.395/0.599	92.105/5.263/2.632	13.600	0.035
Extubation time	No/Yes	47.9/52.1	58.1/41.9	61.1/38.9	80.7/19.3	47.100	<0.001
NMB Reversal details	Complete/ No/Partial	54.768/44.254/0.978	53.942/44.813/1.245	58.491/41.509/0	46.575/52.055/1.37	6.240	0.397
Postoperative instructions	Complete/ No/Partial	69.67/17.3/13.03	61.04/30.92/8.03	51.5/30.54/17.96	45.39/44.74/9.87	57.200	<0.001
Postoperative recovery details	Complete/ No/Partial	57.82/32.94/9.24	63.45/30.92/5.62	56.89/32.34/10.78	52.32/41.06/6.62	9.700	0.138
Extubation	No/Yes	47.8/52.2	47.4/52.6	51.5/48.5	51.3/48.7	1.220	0.747
Extubation site	No/Yes	39.3/60.7	39.7/60.3	41.3/58.7	40.7/59.3	0.247	0.970
Transfer details	No/Yes	68.7/31.3	65.5/34.5	71.3/28.7	80.8/19.2	11.300	0.010
Anaesthesiologist signature	No/Yes	80.09/19.91	86.35/13.65	85.63/14.37	94.04/5.96	17.700	0.001

ETT – Endotracheal tube size, NMB – Neuromuscular blockade, Descriptives presented as percentages.  $P < 0.05$  is statistically significant

**Table S5: List of outcome variables found to be significantly associated with respective predictors after univariate tests**

<b>Phase</b>	<b>Case number</b>	<b>Procedure type</b>	<b>Anaesthesiologist grade</b>
Hospital ID	Weight	Age	Hospital ID
Age	Allergy details	Weight	Visit ID
ASA grade	Diagnosis details	Allergy details	Age
Diagnosis details	Surgery details	Surgeon name	Name
Surgery details	Surgeon name	Anaesthesia faculty name	Gender
Surgeon name	Urine output	Intubation technique	Weight
Anaesthesia resident name	Blood group	Protection	ASA grade
Blood group	Blood loss	Extubation	Allergy details
Intubation technique	IV access	Signature of anaesthesiologist	Diagnosis details
Protection	Antibiotic details		Surgery details
Loco-regional analgesia details	Transfer details		Surgeon name
Intraoperative drug details			Anaesthesia faculty name
Antibiotic details			Anaesthesia resident name
Extubation time			Intubation technique
NMB Reversal details			Fluid intake
Postoperative instructions			Urine output
Postoperative recovery details			Blood group
Extubation			Blood loss
Extubation site			Protection
Transfer details			Loco-regional analgesia details
Anaesthesiologist signature			Antibiotic details
			Extubation time
			Postoperative instructions
			Transfer details
			Signature of anaesthesiologist