

Summary of Participant Performance (Mean and Standard Deviation)

Pco2 (mmHg)

Specimen: G81	Specimen: G82	Specimen: G83	Specimen: G84	Specimen: G85	Number	[Code]	Instrument
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37.91 ± 1.72	29.95 ± 1.24	69.91 ± 4.67	25.21 ± 1.25	43.04 ± 1.87	n = 224	[]	All Instruments
36.00 ± 0.75	30.65 ± 1.58	71.69 ± 0.90	25.31 ± 0.90	43.00 ± 0.75	n = 4	[AVQ]	Opti Medical OPTI CCA
40.56 ± 1.79	31.82 ± 1.26	77.73 ± 4.68	26.16 ± 0.91	45.80 ± 2.11	n = 37	[BYS]	Siemens Rapid Point 405
37.33 ± 0.85	29.09 ± 0.54	69.02 ± 1.21	24.27 ± 0.59	42.11 ± 0.72	n = 16	[BYT]	Siemens RapidLab 1200 Series
37.79 ± 0.92	30.02 ± 0.70	67.85 ± 2.26	24.92 ± 1.12	42.51 ± 1.80	n = 4	[COA]	Siemens RapidLab 845
38.89 ± 0.20	30.32 ± 0.49	68.91 ± 1.49	25.28 ± 0.51	42.60 ± 1.00	n = 3	[COW]	Siemens RapidLab 865
32.78 ± 0.63	27.47 ± 0.53	61.45 ± 1.20	22.20 ± 0.24	38.33 ± 0.72	n = 16	[IAA]	i-STAT
38.27 ± 0.93	29.74 ± 0.55	73.81 ± 2.55	24.31 ± 0.70	44.27 ± 1.00	n = 25	[MAA]	IL Gem Premier 3000
36.61 ± 1.28	29.31 ± 0.76	69.98 ± 2.33	24.44 ± 0.57	42.30 ± 1.28	n = 11	[MAC]	IL Gem Premier 4000
38.00 ± 1.54	29.37 ± 0.55	73.14 ± 1.27	24.37 ± 0.55	44.00 ± 0.00	n = 5	[MAD]	IL Gem Premier 3500
37.40 ± 1.49	30.69 ± 1.50	64.74 ± 2.24	25.32 ± 1.78	42.02 ± 1.75	n = 8	[NOG]	NOVA Critical Care Xpress
38.24 ± 0.80	30.37 ± 0.55	69.76 ± 0.80	25.37 ± 0.55	44.00 ± 0.00	n = 5	[RAX]	Radiometer ABL 80 Flex
37.80 ± 1.37	30.29 ± 0.99	68.74 ± 1.69	25.08 ± 1.57	42.69 ± 0.76	n = 11	[RAJ]	Radiometer NPT7
37.75 ± 0.63	29.94 ± 0.51	68.02 ± 1.39	25.79 ± 0.43	42.54 ± 0.85	n = 26	[RAN]	Radiometer ABL700 series
37.72 ± 0.66	29.75 ± 0.44	67.88 ± 1.24	25.61 ± 0.40	42.46 ± 0.62	n = 35	[RAP]	Radiometer ABL800 series
38.65 ± 0.84	31.26 ± 0.59	71.12 ± 2.06	26.55 ± 0.62	44.58 ± 0.52	n = 5	[ROW]	Roche OMNI/Cobas series

Summary of Participant Performance (Mean and Standard Deviation)

pH

Specimen: G81	Specimen: G82	Specimen: G83	Specimen: G84	Specimen: G85	Number	[Code]	Instrument
7.420 ± 0.017	7.510 ± 0.024	7.132 ± 0.024	7.572 ± 0.023	7.345 ± 0.016	n = 224	[]	All Instruments
7.417 ± 0.009	7.500 ± 0.008	7.132 ± 0.004	7.574 ± 0.019	7.330 ± 0.000	n = 4	[AVQ]	Opti Medical OPTI CCA
7.415 ± 0.008	7.497 ± 0.007	7.103 ± 0.009	7.570 ± 0.007	7.335 ± 0.006	n = 37	[BYS]	Siemens Rapid Point 405
7.438 ± 0.006	7.522 ± 0.005	7.156 ± 0.008	7.590 ± 0.005	7.366 ± 0.006	n = 16	[BYT]	Siemens RapidLab 1200 Series
7.436 ± 0.006	7.520 ± 0.004	7.160 ± 0.003	7.580 ± 0.006	7.365 ± 0.006	n = 4	[COA]	Siemens RapidLab 845
7.433 ± 0.009	7.520 ± 0.001	7.155 ± 0.005	7.582 ± 0.006	7.361 ± 0.000	n = 3	[COW]	Siemens RapidLab 865
7.451 ± 0.009	7.577 ± 0.005	7.172 ± 0.007	7.630 ± 0.007	7.379 ± 0.006	n = 16	[IAA]	i-STAT
7.431 ± 0.010	7.537 ± 0.005	7.111 ± 0.007	7.595 ± 0.009	7.351 ± 0.005	n = 25	[MAA]	IL Gem Premier 3000
7.424 ± 0.006	7.525 ± 0.007	7.115 ± 0.007	7.577 ± 0.006	7.350 ± 0.000	n = 11	[MAC]	IL Gem Premier 4000
7.434 ± 0.006	7.540 ± 0.006	7.110 ± 0.000	7.598 ± 0.008	7.352 ± 0.013	n = 5	[MAD]	IL Gem Premier 3500
7.431 ± 0.005	7.520 ± 0.002	7.166 ± 0.004	7.569 ± 0.006	7.365 ± 0.005	n = 8	[NOG]	NOVA Critical Care Xpress
7.406 ± 0.006	7.516 ± 0.014	7.146 ± 0.006	7.548 ± 0.008	7.336 ± 0.006	n = 5	[RAX]	Radiometer ABL 80 Flex
7.419 ± 0.009	7.509 ± 0.010	7.137 ± 0.008	7.572 ± 0.006	7.346 ± 0.006	n = 11	[RAJ]	Radiometer NPT7
7.407 ± 0.005	7.492 ± 0.003	7.135 ± 0.004	7.553 ± 0.006	7.337 ± 0.004	n = 26	[RAN]	Radiometer ABL700 series
7.403 ± 0.004	7.491 ± 0.002	7.132 ± 0.003	7.551 ± 0.003	7.335 ± 0.004	n = 35	[RAP]	Radiometer ABL800 series
7.411 ± 0.009	7.488 ± 0.004	7.146 ± 0.011	7.533 ± 0.009	7.338 ± 0.010	n = 5	[ROW]	Roche OMNI/Cobas series

Summary of Participant Performance (Mean and Standard Deviation)

Po2 (mmHg)

Specimen: G81	Specimen: G82	Specimen: G83	Specimen: G84	Specimen: G85	Number	[Code]	Instrument
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91.26 ± 6.42	216.09 ± 9.10	161.61 ± 6.09	76.06 ± 7.27	179.14 ± 7.32	n = 224	[]	All Instruments
92.33 ± 3.33	224.30 ± 9.75	169.07 ± 7.66	84.56 ± 6.49	178.19 ± 3.80	n = 4	[AVQ]	Opti Medical OPTI CCA
95.10 ± 5.66	212.70 ± 7.78	156.88 ± 3.73	80.68 ± 5.77	175.36 ± 6.37	n = 37	[BYS]	Siemens Rapid Point 405
90.02 ± 3.27	219.51 ± 4.49	160.60 ± 3.89	73.37 ± 4.91	179.57 ± 4.61	n = 16	[BYT]	Siemens RapidLab 1200 Series
79.81 ± 3.49	208.10 ± 12.72	151.64 ± 8.98	63.58 ± 9.32	164.93 ± 7.27	n = 4	[COA]	Siemens RapidLab 845
84.25 ± 0.54	219.37 ± 6.33	161.63 ± 3.87	70.74 ± 1.37	179.36 ± 5.08	n = 3	[COW]	Siemens RapidLab 865
103.38 ± 7.10	200.27 ± 9.57	163.11 ± 6.09	87.99 ± 6.20	172.69 ± 5.50	n = 16	[IAA]	i-STAT
89.55 ± 3.11	223.88 ± 5.11	170.69 ± 3.31	73.33 ± 2.40	189.89 ± 4.52	n = 25	[MAA]	IL Gem Premier 3000
94.72 ± 2.53	220.91 ± 8.77	166.84 ± 6.02	78.79 ± 2.96	183.91 ± 6.17	n = 11	[MAC]	IL Gem Premier 4000
89.72 ± 3.12	219.63 ± 2.88	167.32 ± 3.37	74.45 ± 2.45	186.09 ± 3.49	n = 5	[MAD]	IL Gem Premier 3500
84.17 ± 2.49	226.26 ± 5.41	165.71 ± 3.37	67.08 ± 3.20	187.03 ± 3.76	n = 8	[NOG]	NOVA Critical Care Xpress
79.00 ± 3.53	213.94 ± 8.22	160.05 ± 3.13	61.00 ± 2.53	177.89 ± 3.82	n = 5	[RAX]	Radiometer ABL 80 Flex
83.43 ± 2.40	215.95 ± 5.73	161.03 ± 3.50	67.33 ± 2.06	179.21 ± 4.58	n = 11	[RAJ]	Radiometer NPT7
89.67 ± 2.32	213.72 ± 5.31	159.09 ± 3.40	74.69 ± 2.18	176.34 ± 4.12	n = 26	[RAN]	Radiometer ABL700 series
92.75 ± 1.90	214.72 ± 4.59	160.14 ± 2.81	77.61 ± 1.30	177.46 ± 3.43	n = 35	[RAP]	Radiometer ABL800 series
103.97 ± 2.58	203.65 ± 4.43	163.93 ± 3.63	91.70 ± 1.80	178.96 ± 5.27	n = 5	[ROW]	Roche OMNI/Cobas series