



Üstündağ H, Mertoğlu C, Huyut MT. Oxyhemoglobin Dissociation Curve in COVID-19 Patients. Meandros Med Dent J 2023;24(1):58-64.

The mistake has been made inadvertently by the authors.

- The sentences under the heading **Abstract and Öz** on page 58 have been changed.

- Incorrect

Results: It was concluded that patients with COVID-19 and other respiratory distress patients had a slight right-leaning trend in the ODC compared with the standard curve. The P50 value of the ICU group was higher than the other groups (mean: 30.74 mmHg, n=131, p=0.047). While the percentage of oxyhemoglobin (mean: 65.44% vs 69.81%, p=0.015), the amount of glucose (mean: 163.39 mg/dL vs 195.36 mg/dL, p=0.002) and pH (median: 7.38 vs 7.41, p=0.007) in the non-ICU group was higher compared with the control group, the carboxyhemoglobin percentage (mean: 1.66% vs 1.13%, p=0.000), PCO₂ (42.02 mmHg vs 39.44 mmHg, p=0.015), potassium (mean: 4.33 mmol/L vs 4.04, p=0.026), and sodium (mean: 138.10 mmol/L vs 135.80 mmol/L, p=0.000) were lower. The methemoglobin percentage of the ICU group was lower (p=0.000) than the other groups.

Bulgular: COVID-19 tanılı ve diğer solunum sıkıntılı hastaların ODC'lerinin standart eğriye göre hafif sağa eğilim gösterdiği belirlendi. YBÜ grubunun P50 değeri, diğer gruplara kıyasla daha yüksekti (ortalama: 30,74 mmHg, n=131, p=0,047). Kontrolle kıyasla non-YBÜ grubunun; oksihemoglobin yüzdesi (ortalama: %65,44 vs %69,81, p=0,015), PO₂'i (46,98 mmHg vs 48,98 mmHg, p=0,001), glikoz miktarı (ortalama: 163,39 mg/dL vs 195,36 mg/dL, p=0,002) ve pH'sı (medyan: 7,38 vs 7,41, p=0,007) daha yüksek iken karboksihemoglobin yüzdesi (ortalama: %1,66 vs %1,13, p=0,000), PCO₂'i (42,02 mmHg vs 39,44 mmHg, p=0,015), potasyum (ortalama: 4,33 mmol/L vs 4,04, p=0,026) ve sodyum (ortalama: 138,10 mmol/L vs 135,80 mmol/L, p=0,000) seviyesi daha düşüktü. YBÜ grubunun methemoglobin yüzdesi ise diğer gruplara kıyasla daha düşüktü (p=0,000).

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ICU group was higher compared with the control group, the carboxyhemoglobin percentage (mean: 1.66% vs 1.13%, p<0.001), PCO₂ (42.02 mmHg vs 39.44 mmHg, p=0.015), potassium (mean: 4.33 mmol/L vs 4.04, p=0.026), and sodium (mean: 138.10 mmol/L vs 135.80 mmol/L, p<0.001) were lower. The methemoglobin percentage of the ICU group was lower (p<0.001) than the other groups.

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- A sentence has been changed under the title of **Statistical Analysis** on page 59, 11th line.

- Incorrect

Tukey and Dunnett post-hoc tests determined significant changes' sources.

- Corrected

Tukey HSD or Games-Howell post-hoc tests were employed to assess differences between groups following one-way ANOVA analysis, while Dunn's post-hoc test was utilized to assess differences between groups after Kruskal-Wallis analysis.

- The p=0.000 values in the p-values column in Table 1 on page 60 of the related article have been changed to p=0.001.



- Incorrect

Table 1. Summary of results from patients with ICU COVID-19, non-ICU COVID-19 and control group without COVID-19

Sex	Non-ICU				ICU				Control				p-value		
	Mean	Median	SD	Min.	Max.	Mean	Median	SD	Min.	Max.	Mean	Median		SD	Min.
Male N (%)	122 (57.5)					80 (61.1)					209 (60.9)				
Female N (%)	90 (42.5)					51 (38.9)					134 (39.1)				0.699
Parameter	Mean	Median	SD	Min.	Max.	Mean	Median	SD	Min.	Max.	Mean	Median	SD	Min.	Max.
Age	68.79*	71.00	14.47	20.00	96.00	71.51*	73.00	13.57	20.00	96.00	62.31#	66.00	20.07	19.00	102.00
P50 (mmHg)	29.25#	28.79	3.71	21.28	53.74	30.74*	29.66	5.86	21.74	74.39	29.38#	28.52	6.67	20.65	110.98
Bicarbonate plasma (mEq/L)	24.18	24.25	4.19	10.30	37.70	24.48	23.80	5.84	11.60	51.00	23.66	23.90	4.42	5.30	42.00
Bilirubin (mg/dL)	1.60	1.45	1.06	0.00	8.00	2.43	1.50	4.04	0.00	33.00	1.57	1.50	0.93	0.10	7.00
Deoxyhemoglobin (%)	27.67	21.40	20.73	1.20	92.00	28.62	25.70	22.63	0.50	83.20	31.51	28.30	20.63	0.70	94.30
Glucose (mg/dL)	195.36*	147.50	123.35	40.00	695.00	185.44	158.00**	104.38	64.00	879.00	163.39#	131.00	96.39	55.00	743.00
HCO ₃ (mEq/L)	24.46	24.35	3.92	15.50	33.60	23.84	25.05	6.32	7.40	43.50	24.00	23.90	3.81	13.20	38.70
Hematocrit (%)	42.48	41.95	12.41	0.90	82.60	40.35	40.40	11.78	5.50	73.90	42.69	43.00	10.25	10.10	78.60
Hemoglobin (g/dL)	13.85	13.70	4.10	0.01	27.20	13.06	12.90	3.91	4.00	24.10	13.94	14.10	3.40	3.10	25.70
Carboxyhemoglobin (%)	113#	1.00	0.61	-0.30	4.80	1.02#	1.00	0.52	-0.30	2.90	1.66*	1.30	1.45	-0.40	11.40
Chlorine (mmol/L)	106.26	106.00	6.85	74.00	136.00	107.35	107.00	9.65	86.00	145.00	106.09	106.00	8.58	2.60	142.00
Lactate (mmol/L)	2.09	1.80	1.21	0.10	6.90	2.23	1.80	1.52	0.50	9.30	2.07	1.70	1.35	0.00	13.70
Methemoglobin (%)	1.36*	1.30	.45	-1.10	3.30	1.20#	1.20	0.49	0.10	3.20	1.42*	1.40	0.44	-1.40	4.60
Oxyhemoglobin (%)	69.81*	75.70	20.60	5.70	96.50	69.20**	72.15	22.54	15.40	96.80	65.44#	68.10	20.52	4.00	97.10
Oxygen saturation (%)	71.73	78.20	21.16	5.80	98.80	70.76	73.75	23.06	15.60	99.50	67.53	70.90	21.15	4.10	99.30
Osmalarite (mOsmol/L)	283.36	283.60	11.61	233.50	340.90	286.14	283.65	18.28	243.20	353.50	285.24	285.65	11.70	237.60	359.30
pH (7.35-7.45)	7.407*	7.415	0.079	7.019	7.557	7.390**	7.408	0.101	7.047	7.590	7.384#	7.383	0.080	6.819	7.649
Potassium (mmol/L)	4.04#	3.90	1.37	2.30	16.80	4.14**	4.00	0.86	2.40	7.00	4.33*	4.10	1.55	2.40	20.10
Sodium (mmol/L)	135.80#	136.00	5.92	111.00	164.00	137.61#*	137.00	8.11	117.00	171.00	138.10*	139.00	5.51	113.00	163.00
Standard base (±3 mmol/L)	0.12	0.25	5.10	-17.50	18.70	0.17	0.20	6.62	-18.80	22.80	0.03	0.30	5.71	-24.50	36.00
Total O ₂ (mEq/L)	13.80#	13.80	5.19	2.30	30.10	12.47*	12.10	5.40	2.70	25.90	12.71#*	12.80	4.98	0.90	30.50
pCO ₂ (mmHg)	39.44*	39.00	9.78	12.20	113.00	41.78**	39.70	12.92	12.70	101.00	42.02#	41.90	9.79	5.40	89.30
pO ₂ (mmHg)	48.98**	44.05	24.26	11.00	177.00	56.86#	45.80	36.30	16.00	295.00	46.98*	40.00	31.08	5.70	281.00
Ionized calcium (mg/dL)	1.15*	1.16	0.12	0.58	1.86	1.10#	1.10	0.10	0.82	1.47	1.15*	1.15	0.12	0.69	1.96

The values in Table 1 are presented as mean and standard deviation (SD). Differences between groups with the same symbol were not statistically significant, while differences between groups with different symbols were found to be significant at a p-value of less than 0.05. ICU: Intensive care unit, COVID-19: Coronavirus disease-2019, SD: Standard deviation, min-max: Minimum-maximum

- Correct

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Sex	Non-ICU			ICU			Control			p-value						
	Mean	Median	SD	Min.	Max.	Mean	Median	SD	Min.		Max.					
Male N (%)	122 (57.5)					80 (61.1)					209 (60.9)					
Female N (%)	90 (42.5)					51 (38.9)					134 (39.1)				0.699	
Parameter	Mean	Median	SD	Min.	Max.	Mean	Median	SD	Min.	Max.	Mean	Median	SD	Min.	Max.	
Age	68.79*	71.00	14.47	20.00	96.00	71.51*	73.00	13.57	20.00	96.00	62.31#	66.00	20.07	19.00	102.00	<0.001
P50 (mmHg)	29.25*	28.79	3.71	21.28	53.74	30.74*	29.66	5.86	21.74	74.39	29.38#	28.52	6.67	20.65	110.98	0.047
Bicarbonate plasma (mEq/L)	24.18	24.25	4.19	10.30	37.70	24.48	23.80	5.84	11.60	51.00	23.66	23.90	4.42	5.30	42.00	0.252
Bilirubin (mg/dL)	1.60	1.45	1.06	0.00	8.00	2.43	1.50	4.04	0.00	33.00	1.57	1.50	0.93	0.10	7.00	0.838
Deoxyhemoglobin (%)	27.67	21.40	20.73	1.20	92.00	28.62	25.70	22.63	0.50	83.20	31.51	28.30	20.63	0.70	94.30	0.107
Glucose (mg/dL)	195.36*	147.50	123.35	40.00	695.00	185.44	158.00**	104.38	64.00	879.00	163.39#	131.00	96.39	55.00	743.00	0.002
HCO ₃ (mEq/L)	24.46	24.35	3.92	15.50	33.60	23.84	25.05	6.32	7.40	43.50	24.00	23.90	3.81	13.20	38.70	0.771
Hematocrit (%)	42.48	41.95	12.41	0.90	82.60	40.35	40.40	11.78	5.50	73.90	42.69	43.00	10.25	10.10	78.60	0.118
Hemoglobin (g/dL)	13.85	13.70	4.10	0.01	27.20	13.06	12.90	3.91	4.00	24.10	13.94	14.10	3.40	3.10	25.70	0.086
Carboxyhemoglobin (%)	1.13#	1.00	0.61	-0.30	4.80	1.02#	1.00	0.52	-0.30	2.90	1.66*	1.30	1.45	-0.40	11.40	<0.001
Chlorine (mmol/L)	106.26	106.00	6.85	74.00	136.00	107.35	107.00	9.65	86.00	145.00	106.09	106.00	8.58	2.60	142.00	0.367
Lactate (mmol/L)	2.09	1.80	1.21	0.10	6.90	2.23	1.80	1.52	0.50	9.30	2.07	1.70	1.35	0.00	13.70	0.506
Methemoglobin (%)	1.36*	1.30	.45	-1.10	3.30	1.20#	1.20	0.49	0.10	3.20	1.42*	1.40	0.44	-1.40	4.60	<0.001
Oxyhemoglobin (%)	69.81*	75.70	20.60	5.70	96.50	69.20**	72.15	22.54	15.40	96.80	65.44#	68.10	20.52	4.00	97.10	0.015
Oxygen saturation (%)	71.73	78.20	21.16	5.80	98.80	70.76	73.75	23.06	15.60	99.50	67.53	70.90	21.15	4.10	99.30	0.076
Osmolality (mOsmol/L)	283.36	283.60	11.61	233.50	340.90	286.14	283.65	18.28	243.20	353.50	285.24	285.65	11.70	237.60	359.30	0.147
pH (7.35-7.45)	7.407*	7.415	0.079	7.019	7.557	7.390**	7.408	0.101	7.047	7.590	7.384#	7.383	0.080	6.819	7.649	0.007
Potassium (mmol/L)	4.04#	3.90	1.37	2.30	16.80	4.14**	4.00	0.86	2.40	7.00	4.33*	4.10	1.55	2.40	20.10	0.026
Sodium (mmol/L)	135.80#	136.00	5.92	111.00	164.00	137.61**	137.00	8.11	117.00	171.00	138.10*	139.00	5.51	113.00	163.00	<0.001
Standard base (±3 mmol/L)	0.12	0.25	5.10	-17.50	18.70	0.17	0.20	6.62	-18.80	22.80	0.03	0.30	5.71	-24.50	36.00	0.970
Total O ₂ (mEq/L)	13.80#	13.80	5.19	2.30	30.10	12.47*	12.10	5.40	2.70	25.90	12.71**	12.80	4.98	0.90	30.50	0.033
pCO ₂ (mmHg)	39.44*	39.00	9.78	12.20	113.00	41.78**	39.70	12.92	12.70	101.00	42.02#	41.90	9.79	5.40	89.30	0.015
pO ₂ (mmHg)	48.98**	44.05	24.26	11.00	177.00	56.86#	45.80	36.30	16.00	295.00	46.98*	40.00	31.08	5.70	281.00	0.001
Ionized calcium (mg/dL)	1.15*	1.16	0.12	0.58	1.86	1.10#	1.10	0.10	0.82	1.47	1.15*	1.15	0.12	0.69	1.96	<0.001

The values in Table 1 are presented as mean and standard deviation (SD). Differences between groups with the same symbol were not statistically significant, while differences between groups with different symbols were found to be significant at a p-value of less than 0.05. ICU: Intensive care unit, COVID-19: Coronavirus disease-2019, SD: Standard deviation, min-max: Minimum-maximum

- The “p=0.000” values on lines 19, 22, and 23 under the results section on page 61 have been changed to “p<0.001”.

- Incorrect

Non-ICU group had higher oxyhemoglobin percentage (mean: 65.44% vs 69.81%, p=0.015), PO₂ (46.98 mmHg vs. 48.98 mmHg, p=0.001), glucose (mean: 163.39 mg/dL vs 195.36 mg/dL, p=0.002), and pH (median: 7.38 vs 7.41, p=0.007) than the control group, but lower carboxyhemoglobin percentage (mean: 1.66% vs 1.13%, **p=0.000**), PCO₂ (42.02 mmHg vs 39.44 mmHg, p=0.015), potassium (mean: 4.33 mmol/L vs 4.04, p=0.026), and sodium (mean: 138.10 mmol/L vs 135.80 mmol/L, **p=0.000**). ICU group had lower methemoglobin percentage (**p=0.000**).

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Kind regards,

Meandros Medical and Dental Journal Editorial Board