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# Study of the correlation between addiction to inhaling opium and the severity of Covid-19 infection in heavy smoker patients: a retrospective longitudinal study



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Interlukin-  
1,6



opium



interferon



# methodology

This retrospective longitudinal study compares two cohorts of smoker covid19 PCR-positive hospitalized patients during 2020.

Group O: 38 inhaler opium addict patients

Group C: 99 patients from the normal population who haven't used any type of opium.

Laboratory findings, discharge vital signs, organ failures, mechanical ventilation requirement, Intensive Care Unit admission, length of hospitalization and mortality were assessed

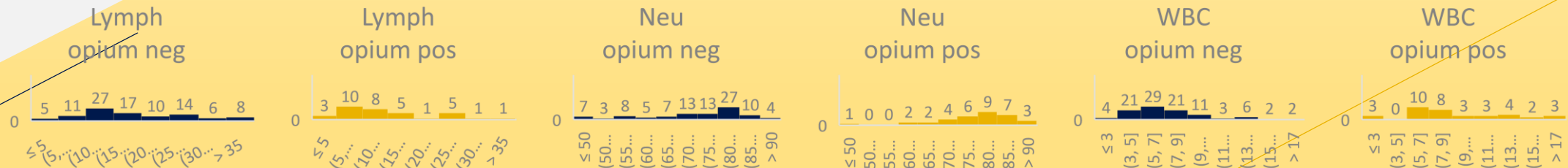
# Demographic findings



Opium negative	Opium positive	Demographic findings
52.42-+17.52	52.68-+15.72	age
35%	13%	gender

## Lab data

Sd	mean	n	opium		Sd	mean	n	opium		Sd	mean	n	<u>opium</u>	
9.09	14.51	33	pos	lymph	9.66	79.97	33	pos	Neu	9.38	10.87	33	pos	WBC
10.76	19.19	98	neg		14.31	73.28	97	neg		8.28	8.23	98	neg	
10.51	17.93	131	all		13.51	75.09	130	all		8.65	8.96	131	all	
<u>p-value=0.010</u>					<u>p-value=0.011</u>					<u>p-value=0.006</u>				



## Lab data



P-value	all			Opium negative			Opium positive			Lab data
	SD	mean	n	SD	mean	n	SD	mean	n	
<b>.269</b>	27.70	36.80	116	26.92	38.05	84	29.83	33.50	32	ESR
<b>.532</b>	28.45	35.23	107	25.12	35.08	77	36.14	35.62	30	CRP
<b>.883</b>	1786.06	1155.65	41	1878.16	1186.62	35	1219.49	974.95	6	D-dimer
<b>.418</b>	1040.50	759.04	74	1020.53	711.35	55	1113.19	897.09	19	Ferritin
<b>.284</b>	100.68	216.56	131	13.86	208.56	98	117.23	237.39	33	Plt
<b>.753</b>	10.96	13.53	131	12.78	92.99	98	2.78	12.67	33	Hb
<b>.300</b>	916.45	143.41	123	1075.09	177.94	90	36.65	52.00	33	AST
<b>.165</b>	323.76	88.70	123	378.74	104.26	90	37.73	47.52	33	ALT
<b>.973</b>	1076.82	738.63	119	1233.96	778.42	89	280.00	620.56	30	LDH
<b>.150</b>	274.70	249.35	42	193.43	194.24	33	422.60	451.44	9	CPK
<b>.110</b>	28.34	26.63	131	32.38	27.24	98	12.73	25.02	33	BUN
<b>.868</b>	.90932	1.2498	131	1.01673	1.2742	98	.54	1.18	33	Cr

## Continuous outcomes



P-value	all			Opium negative			Opium positive			Continuous outcomes
	SD	mean	n	SD	mean	n	SD	mean	n	
<b>.187</b>	6.38	6.41	131	6.72	6.78	98	5.33	5.42	33	Length of hospitalization
<b>.890</b>	5.39	1.92	131	5.52	2.09	98	5.07	1.47	33	Length of stay in ICU
<b>.763</b>	4.51	1.30	131	5.07	1.44	98	2.51	.94	33	Duration of first presentation to ICU admission
<b>.506</b>	10.07	94.74	100	2.92	95.71	76	19.89	91.66	24	SPO2 at discharge
<b>.435</b>	5.48	17.03	52	5.24	17.18	38	6.27	16.64	14	RR at discharge

## Dichotomous outcome



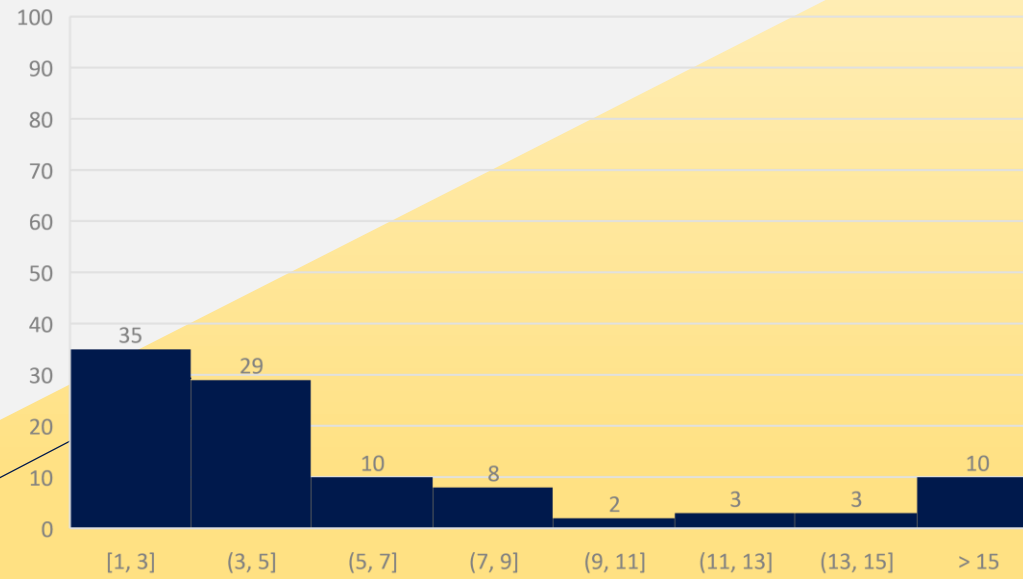
P-value	all	Opium negative	Opium positive	Dichotomous outcome	P-value	all	Opium negative	Opium positive	Dichotomous outcome
<b>.142</b>	11(7.9%)	10(9.9%)	1(2.6%)	Liver failure	.225	27(19.1%)	21(20.4%)	6(15.8%)	ICU admission
<b>-----</b>	0	0	0	PTE	.388	7(5.0%)	6(5.9%)	1(2.6%)	NIV
<b>.532</b>	2(1.4%)	2(1.9%)	0	DVT	.450	29(20.6%)	22(21.4%)	7(18.4%)	Intubation
<b>.105</b>	7(5.0%)	7(6.8%)	0	MI	.106	7(5.5%)	3(3.3%)	4(10.8%)	successful Weaning
<b>.706</b>	4(2.8%)	3(2.9%)	1(2.6%)	CVA	.223	16(11.5%)	10(9.8%)	6(16.2%)	LOC
<b>-----</b>	0	0	0	Discharge with o2 requirement	.551	16(11.4%)	12(11.8%)	4(10.5%)	Heart failure
<b>.579</b>	27(19.3%)	20(19.4%)	7(18.9%)	Death	.490	28(20.0%)	7(18.4%)	21(20.6%)	Renal failure



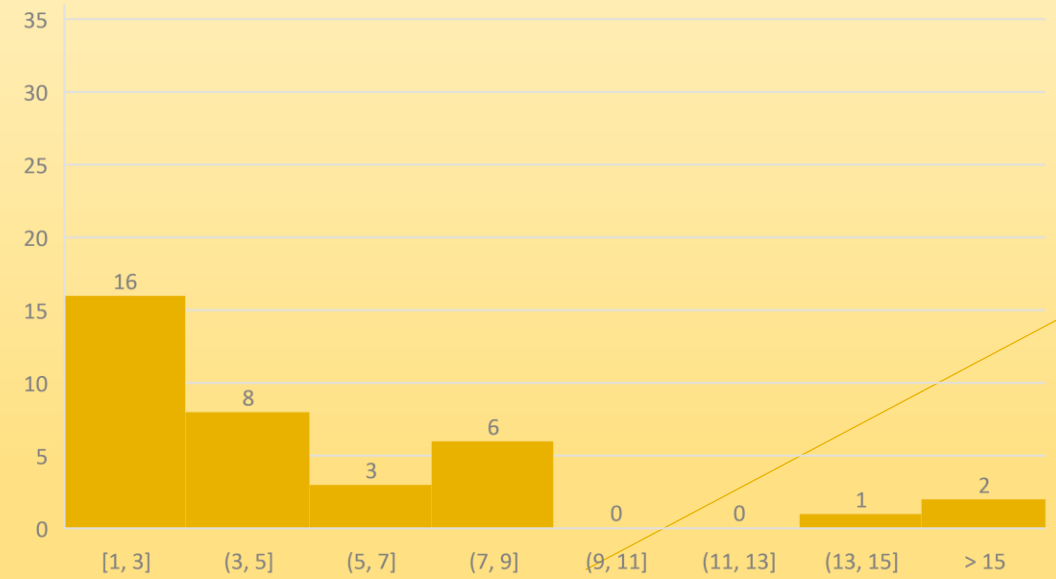


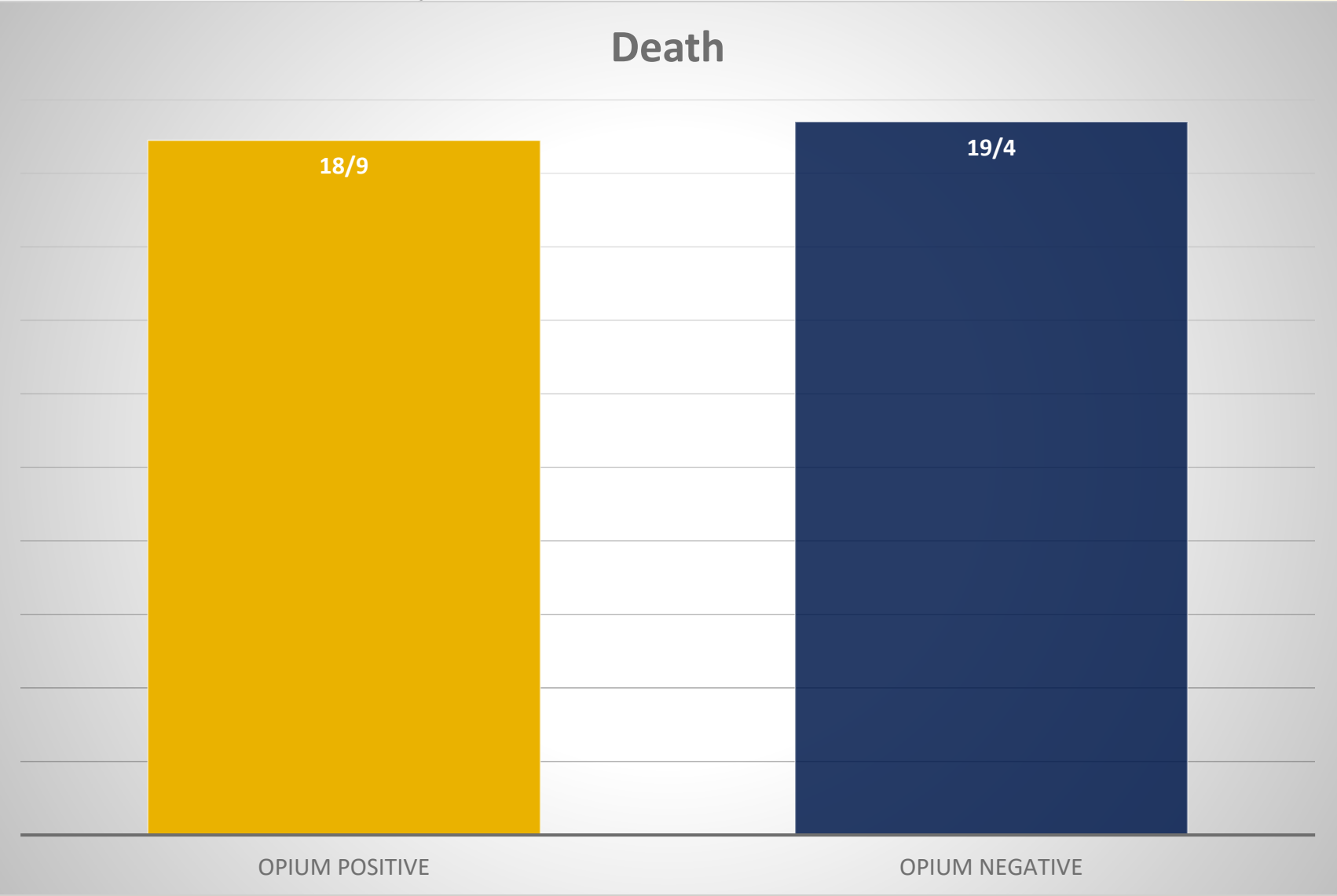
# Length of hospitalization

Length of hospitalization  
opium neg



Length of hospitalization  
opium pos







The dual effect of opium on the immunity system neutralizes each other.

there wasn't any evidence which favors the positive effect of opium usages



**Thank you for your attention**

