

2019 novel coronavirus patients' clinical characteristics, discharge rate and fatality rate of meta-analysis.

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Abstract

BACKGROUND: To study the clinical data, discharge rate, and fatality rate of **COVID-19** patients for clinical help.

METHODS: The clinical data of **COVID-19** patients from December 2019 to February 2020 were retrieved from four databases. We statistically analyzed the clinical symptoms and laboratory results of **COVID-19** patients and explained the discharge rate, fatality rate with a single-arm meta-analysis.

RESULTS: The available data of 1994 patients in 10 literatures were included in our study. The main clinical symptoms of **COVID-19** patients were fever (88.5%), cough (68.6%), myalgia or fatigue (35.8%), expectoration (28.2%), dyspnea (21.9%). Minor symptoms include headache or dizziness: (12.1%) diarrhea (4.8%), nausea, and vomiting (3.9%). The results of laboratory results showed that the lymphocytopenia (64.5%), increase of CRP (44.3%), increase of LDH (28.3%), and leukocytopenia (29.4%) were more common.

CONCLUSIONS: The results of single-arm meta-analysis showed that: the male took a larger percentage in the gender distribution of **COVID-19** patients 60%[95%CI (0.54,0.65)], the discharge rate of **COVID-19** patients was 42%[95%CI (0.29,0.55)], and the fatality rate was 7% [95%CI (0.04,0.10)]. This article is protected by copyright. All rights reserved.

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KEYWORDS: 2019-nCoV; **COVID-19**; clinical characteristics; discharge rate; fatality rate; meta-analysis

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Table I. Demographics of the Included Studies

Study	Year	Country	Number of patients	Age media, y	Sex (male%)	Discharge rate(%)	Fatality rate(%)
Guan.W.J ⁵	2020	China	1099	47	58.1%	-	15(1.36%)
Chang.D ⁶	2020	China	13	34	77.0%	13(100%)	0(0.0%)
Huang.C.L ⁷	2020	China	41	49	73.0%	28(68.3%)	6(14.6%)
Wang.D.W. ⁸	2020	China	138	56	54.3%	47(34.1%)	6(4.3%)
Li.Q. ⁹	2020	China	425	59	56.0%	-	-
Chen.N.S. ¹⁰	2020	China	99	55.5	68.0%	31(31.0%)	11(11.0%)
Wang.Z.W. ¹¹	2020	China	4	-	75.0%	4(100%)	0(0.0%)
Liu.K. ¹²	2020	China	137	57	44.5%	-	16(11.7%)
Chen.L. ¹³	2020	China	29	56	72.0%	-	2(6.9%)
Zhang.M.Q. ¹⁴	2020	China	9	36	55.6%	-	-

Discharge (Fatality)Rate=discharged (fatal) patients number/total patients number.