

Number	Author	Year	Study reigon	Study design	Enrolment period	Study setting	Age of participants	gender of participants
1	Ying P. Tabak	2009	the United States	Aggregated data	2004.1.1-2006.12.31	Hospitals	72 (63-79)	19846 (45.2)
2	Ying P. Tabak	2013	the United States	Aggregated data	2005.1.1-2007.12.31	Hospitals	70.7 (11.7)	31601 (45.6)
3	Peter K. Lindenauer	2013	the United States	Aggregated data	2008	Hospitals	Unclear	No information
4	Cassandra M. Batzloff	2014	the United States	Retrospective cohort	1995.4-2009.11	Medical ICU of a tertiary academic medical center	70(11)	No information
5	Matthew Bonomo	2022	the United States	Retrospective cohort	2008.11-2018.12	Hospital	64 (11)	1231(38.0)
6	Shi Chen	2023	the United States	Aggregated data	2002-2019	ICU of hospital	71.26(10.79)	680 (50.52)
7	M.J. WILDMAN	2009	the UK	Prospective cohort	2002.3-2003.9	ICU and Respiratory High Dependency Units (RHDU)	Unclear	435(52.3)
8	Alex C. Asimwe	2011	the UK	Retrospective cohort	Unclear	Hospital	71.3 (11.7)	1847 (56.9)
9	John Steer	2012	the UK	Prospective cohort	2008.12-2010.6	Hospitals	73.1 (10.0)	424(46.1)
10	C Echevarria	2017	the UK	Prospective cohort	2008.12-2010.6	Hospitals	72.3 (9.9)	447(45.8)
11	Tom Hartley	2021	the UK	Retrospective cohort	2008.11-2013.5	Hospitals	72.8(10.0)	183(37.4)
12	Prachya Mekanimitdee	2021	Thailand	Retrospective cohort	2015.10-2017.9	Tertiary care center	74.1 (11.1)	515 (85.8)
13	SUSANA GARCÍA-GUTIÉRREZ	2014	Spain	Prospective cohort	2008.6-2010.9	EDs of hospitals	72.3 (9.8)	1,187 (91.5)
14	José M Quintana	2014	Spain	Prospective cohort	2008.6-2010.9	EDs of hospitals	72.32 (9.81)	1136 (91.47)
15	J. M. Quintana	2014	Spain	Prospective cohort	2008.6-2010.9	ED of hospital	No information	No information
16	Pedro Almagro,MD	2014	Spain	Prospective cohort	2009.10-2010.10	EDs and internal medicine services	72.6 (9.9)	544(89.8)
17	Cristóbal Esteban	2015	Spain	Prospective cohort	2008.6-2010.9	ED of hospitals	72.5 (9.8)	1147(91.6)
18	Juan Luis García-Rivero	2017	Spain	Prospective cohort	2013.1-2013.3	Hospital	71.1(9.8)	91 (85.8)
19	C esar Alameda	2021	Spain	Prospective cohort	2013.12-2014.11	Health centres (HC)	78(69-83)	1419 (83.7)
20	Ying Wang	2014	Norway	Retrospective cohort	2006.3-2008.12	Hospital	73.2(10.8)	271 (46)
21	Yukiyo Sakamoto	2017	Japan	Aggregated data	2010.7.1-2013.3.31	Hospitals	76.0(8.9)	2508(81.9)
22	Akihiro Shiroshita	2022	Japan	Retrospective cohort	2008.4-2020.7	Acute care hospitals	77(8)	1059 (89)
23	Jiang-Chen Peng	2022	Israel	Aggregated data	2001-2012	ICU at Medical Center	70.8(10.4)	248 (50.2)
24	A. Mohan	2007	India	Prospective cohort	2004.2-2006.3	Medical wards and ICU of the All India Institute of Medical Sciences	60.5 (11.4)	120 (79.5)
25	Karthikeyan Ramaraju	2016	India	Retrospective cohort	2012.8-2013.7	Tertiary care teaching hospital	63.85(9.71)	255 (100)
26	Filia Diamantea MD	2014	Greece	Prospective cohort	2010.1-2012.6	Respiratory medicine departments of tertiary hospitals	72.0 (65.0-78.0)	51(31.1)
27	N. Roche	2008	France	Prospective cohort	2003.11-2004.2	Emergency departments in hospitals	72.5 (11.8)	549 (70.0)
28	Nicolas Roche	2014	France	Retrospective cohort	2006.10-2007.6	Respiratory medicine department of general hospitals	70.3(11.3)	1401(76.8)
29	Liping Fan	2014	China	Prospective cohort	2012.10-2014.5	Respiratory ICU of hospital	NPPV SUCCESS: 72.3( 9.3) NPPV FAILURE:74.3( 10.6)	NPPV SUCCESS: 143(69.42) NPPV FAILURE:46(83.6)
30	Dong Liu	2015	China	Prospective cohort	2013.11-2014.2	Respiratory medical ward or intensive care unit in the hospital	71(65,77)	144(81.8)
31	Qi-fang Shi	2018	China	Prospective cohort	2016.1-2017.12	ICU of hospital	77.57 (7.22)	73(65.18)
32	Wei-ping Hu	2019	China	Retrospective cohort	2005-2007	Hospitals	74.07(9.89)	586 (85)
33	Mi Zhou	2019	China	Retrospective cohort	2011.2-2018.6	Department of Respiratory and Critical Care Medicine of Hospital	Mild:76.66 (9.49) Severe:75.06 (7.94)	Mild:240 (77.9) Severe:201 (82.4)
34	Yi Chen	2020	China	Retrospective cohort	2017.1-2018.12	Hospital	75 (66,79)	120(70.18)
35	Xing Yu	2020	China	Retrospective cohort	2015.1-2017.12	Hospital	77.0(9.5)	576 (82.9)
36	Junfeng Peng	2020	China	Retrospective cohort	2011-2018	Hospital	Mild:79(9) Severe:82(9)	Mild:163 (78.4) Severe:178 (88.1)
37	Wei Bi	2020	China	Prospective cohort	2018.1-2018.12	Department of Emergency Internal Medicine in the hospitals	MV:67.06(12.04) NON-MV:63.60(8.82)	281(62.2%)
38	Fen Dong	2021	China	Retrospective cohort	2015.1.1-2019.12.31	National Clinical Research Center for Respiratory Diseases	73(10.0)	743 (67.8)
39	Lan Chen	2021	China	Retrospective cohort	2018.1-2020.9	ED of a tertiary hospital	Live:77.9(11.6) Dead:76.2(10.2)	Live:12 (63.2) Dead:413 (71.0)
40	Lili Chen and Shiping Chen	2021	China	Prospective cohort	2016.1-2019.12	Hospital	70.82(9.88)	425 (66.82)
41	Lifen Yang	2022	China	Retrospective cohort	No information	Hospital	71.23(8.43)	194 (86.22)
42	Dawei Chen	2023	China	Retrospective cohort	2014.1-2017.1	Hospital	76.7(9.3)	861(76.8)
43	Lin Yu	2023	China	Retrospective cohort	2012.9-2021.8	Hospital	77(6)	529 (80.3)
44	Shiyi He	2023	China	Prospective cohort	2020.1-2022.6	Hospital	Respiratory Failure:66.0(62.3,72.8) no Respiratory Failure:70.0(63.3,73.0)	Respiratory Failure:39(81.3) no Respiratory Failure:65(85.5)
45	Li-Na Yan	2024	China	Retrospective cohort	2020.6-2023.6	Hospital	AECOPD:75.61(7.31) AECOPD+AHF:77.15(6.83)	194(58.8)
46	Reza Fakhraei	2023	Canada	Retrospective cohort	2012-2018	General Internal Medicine ward of	74(12)	2261(62.46)