

Supplementary Table 1. General characteristics of studies (N=50)

No.	Author (year)	Countries	Hospital type	Sample size	Name of tool used <sup>a)</sup>	Related variable	Quality assessment score	Included in the meta-analysis
1	Al-Faouri (2021)	Jordan	2(Public hospital 1(University hospital)	266	Luo et al (2010)	Knowledge of Standard Precautions, Clinical experience	6	0
2	Alharbi (2023)	Saudi Arabia	4(Public hospital) 2(Private hospital) 8(Primary healthcare center)	420	Researcher Development	Knowledge of Standard Precautions, Working place: public hospital The department: highly contaminated	10	0
3	Berdida (2024)	Philippines	N/A (Social media platforms)	730	CSPS <sup>b)</sup> (2011)	Safety climate, Quality of care, Justification, Leadership, Contextual cues, Culture/practice, Judgement	10	0
4	Byun (2019)	Korea	5(Long-term Care Hospital)	134	Suh (2009)	Knowledge of Standard Precautions, Patient safety culture	9	0
5	Cha (2019)	Korea	3(General hospital)	345	Lee (2018)	Blood-borne infection knowledge	8	0
6	Cho (2020)	Korea	5(General hospital)	184	Suh (2009)	Safety Climate, Knowledge of Standard Precautions, Perception of Standard Precautions	9	0
7	Cho (2021)	Korea	9(Long-term Care Hospital)	153	Beak (2016)	Knowledge of Standard Precautions, Performance educational needs	9	0
8	Choi (2020)	Korea	2(General hospital)	140	Suh (2009)	Knowledge of Standard Precautions, Awareness of Standard Precautions	9	0
9	Choi (2024)	Korea	2(General hospital)	158	Hong (2011)	Patient safety culture, Critical thinking propensity	9	0
10	Choi (2012)	Korea	N/A (Military hospital)	324	Cho (2007)	Safety climate, Knowledge of Standard Precautions, Attitude toward Standard Precautions	8	0
11	Cruz (2024)	Kazakhstan	3(Tertiary national hospital)	241	CSPS <sup>b)</sup> (2011)	Age, Clinical experience	6	0
12	Du (2024)	China	1(General hospital)	924	CSPS <sup>b)</sup> (2011)	Emotional exhaustion, Resilience, Servant leadership	8	X
13	El-Shafie (1995)	Egypt	1(Hospital)	54	Millward (1993)	Knowledge of Standard Precautions	4	X

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14	Ghabayen (2023)	Jordan	3(Military hospital)	408	Luo et al (2010)	Knowledge of Standard Precautions, Age, Clinical experience, Have a sharp disposal box, Exposure to a sharp injury, Exposure of impaired skin to blood, Training on Standard Precautions, Performing needle recapping, Availability of personal protective equipment	5	0
15	Gruber (1989)	USA	1(Medical center)	213	Researcher Development	Knowledge of Standard Precautions	3	X
16	Han (2018)	Korea	1(General hospital)	214	Hong (2011)	Safety climate, Moral sensitivity	8	0
17	Huang (2024)	China	8(Tertiary hospital)	310	CSPS <sup>b)</sup> (2011)	Attitude toward Standard Precaution, Infection prevention climate, Intention to adhere to Standard Precaution, Perceived behavioral control of Standard Precaution	10	0
18	Jang (2021)	Korea	6 (Long-term Care Hospital)	143	Suh (2009)	Perception of Standard Precautions, Perceived sensitivity, Perceived seriousness, Perceived benefits, Perceived barrier, Cues to action	9	0
19	Jeong (2021)	Korea	3(General hospital)	150	Hong (2011)	Moral sensitivity, Patient safety culture	9	0
20	Jeong (2023)	Korea	Social media platform (General hospital)	212	Beak (2016)	COVID-19 burnout, Perceived threat for COVID-19, Occupational calling	9	X
21	Kim (2016)	Korea	4(General hospital)	121	Researcher Development	Blood-borne infection knowledge, Risk perception related to blood-borne infection (Perceived benefit, Perceived severity, Perceived susceptibility, Perceived barrier)	9	0
22	Kim (2019)	Korea	12(General hospital)	200	Hong (2011)	Organizational culture for infection control, Self-efficacy	9	0
23	Kim (2021a)	Korea	5(Veterans Hospital)	172	Researcher Development	Organizational culture for infection control, Self-efficacy	9	0
24	Kim (2021b)	Korea	9(Hospital)	140	Hong (2011)	Safety Climate, Organizational culture for infection control, Self-efficacy, Ethical Awareness	8	0

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No.	Author (year)	Countries	Hospital type	Sample size	Name of tool used <sup>a)</sup>	Related variable	Quality assessment score	Included in the meta-analysis
25	Kim (2022a)	Korea	1(General hospital)	166	Hong (2011)	Grit, Patient safety Culture, Infection prevention environment	8	0
26	Kim (2022b)	Korea	1(General hospital)	163	Researcher Development	Safety Climate, Attitude toward Standard Precautions, Organizational culture for infection control, Self-reported adherence	9	0
27	Kim (2023)	Korea	1(General hospital)	179	Hong (2011)	Knowledge of Standard Precautions, Nursing professionalism, Organizational culture for infection control	8	0
28	Kong (2016)	Korea	1(Tertiary hospital)	169	Choi & Lee (2006)	Blood-borne infection awareness, Blood-borne infection knowledge	10	0
29	Ku (2022)	Korea	3(General hospital)	169	Suh (2009)	Knowledge of Standard Precautions, Organizational culture for infection control, Moral sensitivity	9	0
30	Lee (2022)	Korea	7(General hospital)	258	Researcher Development	Infection Control Knowledge	9	X
31	Lee (2012)	Korea	3(General hospital) 1(University hospital)	172	Suh (2009)	Knowledge of Standard Precautions, Perception of Standard Precautions	9	0
32	Lee (2014)	Korea	1(University hospital)	187	Researcher Development	Knowledge of Standard Precautions, Attitude toward Standard Precautions	8	0
33	Lee (2021)	Korea	2(Public hospital)	192	Suh (2009)	Safety climate, Knowledge of Standard Precautions	9	0
34	Lim (2019)	Korea	1(University hospital)	329	CSPS <sup>b)</sup> (2011)	Age, Clinical experience, Years in Practice in Current Job, Current Position, Total Number of Nurses, Nurse-to-Patient Ratio, Patient safety culture	6	0
35	Lim (2021)	Singapore	1(Tertiary hospital)	241	CSPS <sup>b)</sup> (2011)	Justification, Leadership, Contextual cues, Culture/practice	6	0
36	Luo (2021)	China	4(First class hospital) 8(Second class hospital) 6(Third class hospital)	1,444	Researcher Development	Knowledge of Standard Precautions, Self-efficacy	9	0

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No.	Author (year)	Countries	Hospital type	Sample size	Name of tool used <sup>a)</sup>	Related variable	Quality assessment score	Included in the meta-analysis
37	Mehravar (2022)	Iran	3(Educational hospital)	252	Researcher Development	Knowledge of Standard Precautions, Perceived sensitivity, Perceived seriousness, Perceived benefits, Perceived barrier, Cues to action, Self-efficacy	10	0
38	Ogunrinde (2023)	Nigeria	3(Tertiary hospital)	137	CSPS <sup>b)</sup> (2011)	Designation, Working unit	5	X
39	Oh (2019)	Korea	9(General hospital) 3(Tertiary hospital)	332	Jeong (2011)	Safety climate, Age, Knowledge of Standard Precautions, Clinical experience, Awareness of Standard Precautions, Administrative support	9	0
40	Park (2016)	Korea	3(General hospital)	144	Jeong (2011)	Safety climate, Attitude toward Standard Precautions, Awareness of Standard Precautions	8	0
41	Park (2020)	Korea	15(General hospital)	153	Suh (2009)	Moral sensitivity, Fatigue, Self-leadership	9	0
42	Park (2021)	Korea	6(Health psychiatric hospital)	134	Researcher Development	Knowledge of Standard Precautions, Awareness of Standard Precautions	8	0
43	Roh (2017)	Korea	3(General hospital)	391	Researcher Development	Perceived importance of infection control Necessity of education for safety injection Experience of infection control education	6	X
44	Shin (2011)	Korea	1(General hospital)	206	Kim (2008)	Awareness of Standard Precautions	8	0
45	Shin (2021)	Korea	1(General hospital)	108	Hand hygiene 5 Practice Points (WHO)	Hand hygiene intent	9	X
46	Sim (2019)	Korea	6(General hospital)	151	Suh (2009)	Safety climate, Knowledge of Standard Precautions, Perception of Standard Precautions	8	0
47	Sim (2022a)	Korea	4 (Long-term Care Hospital)	145	Beak (2016)	Knowledge of Standard Precautions	9	0

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No.	Author (year)	Countries	Hospital type	Sample size	Name of tool used <sup>a)</sup>	Related variable	Quality assessment score	Included in the meta-analysis
48	Sim (2022b)	Korea	6(Korean Medicine Hospital)	138	Suh (2009)	Type of hospital: university hospital Barriers to perform Standard Precaution: Lack of time Barriers to perform Standard Precaution: work overload Accreditation status	7	X
49	Suh (2010)	Korea	4(General hospital)	292	Suh (2009)	Safety climate, Knowledge of Standard Precaution, Attitude toward Standard Precautions, Age, Clinical experience	6	0
50	Tae (2012)	Korea	1(University hospital)	134	Kim (2008)	Awareness of Standard Precaution, Clinical competence	8	0

Note. <sup>a)</sup>Instruments were labeled and classified based on the developer and year of development; instruments developed by the study authors were labeled as “Researcher Development.”

<sup>b)</sup>CSPS = Compliance with Standard Precautions Scale.