Supplementary Material

Mapping Psychological Empowerment Interventions for Nurses: A Scoping Review. J Nurs Midwifery Sci. 2026;13(4):e174091. https://doi.org/10.5812/jnms-174091. Reference numbers without the prefix S refer to the reference list of the article; references S1–S31 are listed at the end of this file.

Supplementary Table S1. Full-text articles excluded with primary reason (n = 32)

No.	Author(s)	Year	Title	Primary reason for exclusion
1	Ahmed, H. A. (S1)	2025	Social undermining and psychological empowerment: unveiling the association to resilience in nursing - a cross-sectional study	Did not evaluate an intervention
2	Shapira-Lishchinsky, Orly (S2)	2019	Nurses' psychological empowerment: An integrative approach	Did not evaluate an intervention
3	Wang, X. (S3)	2025	Nurses' Self-Efficacy, Job Embeddedness, and Psychological Empowerment: A Cross-Sectional Study	Did not evaluate an intervention
4	Allowh, S. N (S4)	2023	The relationship between perceived management commitment to safety, psychological empowerment, and safety performance among emergency nurses in Jordan	Did not evaluate an intervention
5	Xu, Ershan (S5)	2026	Association Between Psychological Empowerment and Work Engagement Among Rural Nurses: A Latent Profile and Moderation Analysis	Did not evaluate an intervention
6	Zhang, Minyi (S6)	2022	Does transformational leadership and psychological empowerment improve nurses' innovative behaviour during COVID-19 outbreak? A cross-sectional study	Did not evaluate an intervention
7	Baek, Eun Bee (S7)	2022	Relationship between a University Hospital Nurses' Structural Empowerment and Quality of Nursing Work Life: Mediating Effect of Psychological Empowerment	Did not evaluate an intervention
8	Zhang, Siai (S8)	2022	Chinese nurses' innovation capacity: The influence of inclusive leadership, empowering leadership and psychological empowerment	Did not evaluate an intervention
9	Liao, Rui-xue (S9)	2016	The impact of structural empowerment and psychological capital on competence among Chinese baccalaureate nursing students: A questionnaire survey	Did not evaluate an intervention
10	Ren, Liping (S10)	2017	Effects of Bullying Experience on Psychological Well-Being Mediated by Conflict Management Styles and Psychological Empowerment among Nursing Students in Clinical Placement: A Structural Equation Modeling Approach	Did not evaluate an intervention
11	Zhuang, Jiehao (S11)	2025	The effect of psychological empowerment on clinical nurses' thriving at work: the mediating role of voice behavior	Did not evaluate an intervention
12	Lethbridge, Kristen (S12)	2011	Structural and Psychological Empowerment and Reflective Thinking: Is There a Link?	Did not evaluate an intervention
13	Huang, Liebin (6)	2024	Interventions to support the psychological empowerment of nurses: a scoping review	Not an original intervention study
14	(S13) Turnipseed, D.	2020	Fits and Misfits: The Impact of Individual Differences on Psychological Empowerment in Healthcare	Did not evaluate an intervention

15	Al-shomrani (S14)	2024	The Relationship Between Psychological Empowerment and Clinical Decision-Making Among Staff Nurses in Governmental Hospital in Al-Baha, Saudi Arabia	Did not evaluate an intervention
16	Wagner, Joan I. J. (S15)	2010	The relationship between structural empowerment and psychological empowerment for nurses: a systematic review	Not an original intervention study
17	Gu, Lihua (S16)	2022	Psychological empowerment and job satisfaction in nurses: A systematic review and meta-analysis	Not an original intervention study
18	Gong, Xiyan (S17)	2025	Relationship Between Perceived Psychological Empowerment, Clinical Leadership, and Quality of Work Life Among Chinese Nurses: A Correlational Study	Did not evaluate an intervention
19	Fang, Chiu-Shu (S18)	2025	Nurses' Perceptions of Authentic Leadership and Quality of Nursing Care: The Mediating Role of Psychological Empowerment	Did not evaluate an intervention
20	Albasal, N. A. (S19)	2022	Structural and psychological empowerment and organizational commitment among staff nurses in Jordan	Did not evaluate an intervention
21	Alharbi, A. (S20)	2025	Relationship between nursing work environment and clinical decision-making among Saudi nurses: psychological empowerment as mediator	Did not evaluate an intervention
22	Wang, Xuan (S21)	2024	Exploring the influence of the spiritual climate on psychological empowerment among nurses in China: a cross-sectional study	Did not evaluate an intervention
23	Browning, A. M. (S22)	2013	Moral distress and psychological empowerment in critical care nurses caring for adults at end of life	Did not evaluate an intervention
24	Hossein, Meysam Pour (S23)	2025	The effects of e-learning vs. gamification-based training on ICU nurses' knowledge and attitudes toward organ donation candidates: a study based on the psychological security and empowerment model	Intervention not aimed at psychological empowerment
25	Nieves, H. (S24)	2021	Effect of a Parent Empowerment Program on Parental Stress, Satisfaction, and Length of Stay in the Neonatal Intensive Care Unit	Population not nurses
26	Nouroozi, A. (S25)	2023	The effect of assertiveness-based empowerment on professional commitment and moral courage of nurses working in Shahrekord educational hospitals	Intervention not aimed at psychological empowerment
27	Wang, X. (S26)	2024	Empowering women with fetal malpositions: enhancing childbirth experience and empowerment through educational interventions: a randomized controlled clinical trial	Population not nurses
28	Peyrovi, H. (S27)	2016	The effect of empowerment program on "perceived readiness for discharge" of mothers of premature infants	Population not nurses
29	Shokre, E. S (S28)	2024	The effectiveness of the psychosocial empowerment program in early adjustment among adult burn survivors	Population not nurses
30	Tawfik, Elham (S29)	2023	A nurse versus a chatbot - the effect of an empowerment program on chemotherapy-related side effects and the self-care behaviors of women living with breast Cancer: a randomized controlled trial	Population not nurses
31	Cui, Y (S30)	2025	Effects of Psychological Empowerment–Based Motivational Interviewing Program on Self-Management Behavior in Patients With Early Chronic Kidney Disease: A Mixed Methods Study	Population not nurses

32	Joy, G. V. (S31)	2025	Empowerment of nurses in qatar: unveiling the relationship between self-esteem, psychological empowerment, and assertiveness	Did not evaluate an intervention

Supplementary Table S2. Reports sought for retrieval but not retrieved (n = 19)

No.	Author(s) / Registry	Year	Title	Source / identifier	Record type	Retrieval attempts and outcome	Potentially intervention -related
1	ChiCTR	2024	Construction and Empirical Study of a Psychosocial Empowerment Program for Emergency and critical care nurses Based on an Empowering Cognitive Model	ChiCTR2400082314	Trial registry record	Registry record only; no full-text report available	Yes
2	El Dahshan ME, Dorgham LS	2013	The effect of structural and psychological empowerment on occupational burnout in staff nurses working in Shebin El-Kom Hospitals, Menoufiya Governorate, Egypt	Life Science Journal. 2013;10(1):4447-56	Journal article	Institutional access and open-access repository search failed	No
3	Ouyang YQ, Zhou WB, Qu H	2015	The impact of psychological empowerment and organisational commitment on Chinese nurses' job satisfaction	Contemporary Nurse. 2015;50(1):80-91. doi:10.1080/10376178.2015.1010253	Journal article	Institutional access and open-access repository search failed	No
4	ClinicalTrials.gov	2025	The Effect of a Digital Board Game-Based Psychological Empowerment Program on Nurses' Psychological Empowerment Levels, Job Satisfaction, and Innovative Behaviors	NCT07239882	Trial registry record	Registry record only; no full-text report available	Yes
5	ClinicalTrials.gov	2026	Effect of an Empowerment-Based Psychoeducation Program on Burnout and Psychological Outcomes in Nurse Managers	NCT07556302	Trial registry record	Registry record only; no full-text report available	Yes
6	Baker SL, Fitzpatrick JJ, Griffin MQ	2011	Empowerment and job satisfaction in associate degree nurse educators	Nursing Education Perspectives. 2011;32(4):234-9. doi:10.5480/1536-5026-32.4.234	Journal article	Institutional access and open-access repository search failed	No
7	Cheeks P, Dunn PS	2010	A new-graduate program: Empowering the novice nurse	Journal for Nurses in Staff Development. 2010;26(5):223-7. doi:10.1097/NND.0b013e3181993b72	Journal article	Institutional access and open-access repository search failed	Yes
8	Chambers D, Thompson S	2009	Empowerment and its application in health promotion in acute care settings: nurses' perceptions	Journal of Advanced Nursing. 2009;65(1):130-8.	Journal article	Institutional access and open-access	No

				doi:10.1111/j.1365-2648.2008.04851.x		repository search failed	
9	DiGangi Condon KA, Berger JT, Shurpin KM	2021	I've Got the Power: Nurses' Moral Distress and Perceptions of Empowerment	American Journal of Critical Care. 2021;30(6):461-5. doi:10.4037/ajcc2021112	Journal article	Institutional access and open-access repository search failed	No
10	Dahinten VS, MacPhee M, Hejazi S, Laschinger H, Kazanjian M, McCutcheon A, et al.	2014	Testing the effects of an empowerment-based leadership development programme: part 2-staff outcomes	Journal of Nursing Management. 2014;22(1):16-28. doi:10.1111/jonm.12059	Journal article	Institutional access and open-access repository search failed	Yes
11	Ducko JI, Stewart S	2022	The Effect of Peer-to-Peer Education about the Significance of Specialty Certification on Empowering Nurses Working in Dialysis	Nephrology Nursing Journal. 2022;49(3):241-54 PMID: 35802362	Journal article	Institutional access and open-access repository search failed	Yes
12	Dveirin GF, Adams KL	1993	Empowering health care improvement: an operational model	The Joint Commission Journal on Quality Improvement. 1993;19(7):222-33. doi:10.1016/s1070-3241(16)30003-7	Journal article	Interlibrary loan and open-access repository search failed	No
13	Forbes Y	2025	Pediatric Pain Nurse Consultation Service (PPNC): Empowering Nurses to Optimize Pain Management	Pain Management Nursing. 2025;26(2):e225-e226. doi:10.1016/j.pmn.2025.01.054	Journal article	Institutional access and open-access repository search failed	No
14	Gkertsou IM, Ntre V, Pliakou N	2025	Empowering nurses: Psychotherapeutic properties in the prevention of burnout through phenomenological interpretative analysis (IPA)	Hellenic Journal of Nursing. 2025;64(2):67-78	Journal article	Institutional access and open-access repository search failed	No
15	Hee CG, Kwon S, Hong M	2016	The Effect of an Empowerment Program for Advanced Beginner Hospital Nurses	Journal of the Korean Data Analysis Society. 2016;18(2):1079-92	Journal article	Institutional access and open-access repository search failed	Yes
16	In-Sook P	2015	The Effect of Situational Leadership Program on Critical Thinking, Coaching and Empowerment of Nurse Leader	Journal of the Korea Academia-Industrial Cooperation Society. 2015;16(12):8568-75. doi:10.5762/KAIS.2015.16.12.8568	Journal article	Interlibrary loan and open-access repository search failed	Yes

17	IRCT	2017	The effect of the nurses empowerment on the quality of care in patient	IRCT2016051624342N3	Trial registry record	Registry record only; no full-text report available	Yes
18	IRCT	2025	The Effect of an Empowerment Program Based on the Silver Model on Newly Graduated Nurses	IRCT20130731014229N14	Trial registry record	Registry record only; no full-text report available	Yes
19	IRCT	2018	The effect of Critical care nurses' empowerment on diagnostic of bedsores degree	IRCT20171029037074N1	Trial registry record	Registry record only; no full-text report available	Yes

Note: These reports were sought but could not be retrieved and were therefore not assessed for eligibility. Each record is identified by its author(s) or registry, year, title, and source or identifier (journal citation, DOI, or registry number); trial registry records without a published report are identified by registry number. Titles are reproduced as they appear in the retrieved records. Retrieval procedures are described in Section 3.5. Abbreviations: ChiCTR, Chinese Clinical Trial Registry; IRCT, Iranian Registry of Clinical Trials; NCT, ClinicalTrials.gov identifier.

Supplementary Table S3. Overlap between the studies included in the present review and the scoping review by Huang et al. (2024) (6).

No.	Study (reference)	Included in Huang et al. (2024)
1	Şen Olgay & Uğur (7)	No
2	Sarıköse & Şenol Çelik (24)	No
3	Özbaş & Tel (25)	Yes
4	Sawyer et al. (22)	No
5	Sawyer et al. (23)	Yes
6	Sawyer et al. (21)	Yes
7	Askari et al. (28)	No
8	Doucet & Rhéaume (18)	No
9	Bevan (20)	No
10	Chang et al. (26)	Yes
11	Dirik & Intepeler (17)	Yes
12	Abel et al. (16)	No
13	Yılmaz & Duygulu (19)	Yes
14	Yeh et al. (27)	No

Note: Huang et al. (2024) included 11 studies, six of which are shared with the present review; the remaining eight studies in the present review were not included in that earlier review.

Supplementary References

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