

Social Intelligence in Nursing Research: A Text Mining and Topic Modeling Analysis of Domestic and International Trends

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AIMS

This study identified the thematic structure of SI research and compared trends across four groups: domestic nursing, international nursing, domestic non-nursing, and international non-nursing.

METHODS

A total of 257 abstracts retrieved through April 2026 from seven databases were analyzed. Following text preprocessing, frequency analysis, LDA topic modeling, and co-occurrence network analysis were applied.

RESULTS

A total of 257 abstracts retrieved through April 2026 from seven databases were analyzed. Following text preprocessing, frequency analysis, LDA topic modeling, and co-occurrence network analysis were applied.

Group	Topic	Topic label	Top 5 keywords	n	%
DomesticNursing(K=3)	1	SI-EI-related variables	social_intelligence, factor, program, nursing_student, competency	9	33.3
	2	Clinical nurse competency	nurse, clinical, development, competency, performance	9	33.3
	3	EI-based burnout-turnover	emotional_intelligence, burnout, job, social_support, emotional_labor	9	33.3
InternationalNursing(K=3)	1	Social capital-mental health	social_intelligence, nursing_student, social_capital, student, mental_health	8	25.0
	2	EI-social skills-patient care	nurse, emotional_intelligence, relationship, social_skill, patient	11	34.4
	3	Education-training	education, skill, stress, intervention, program	13	40.6
DomesticNon-Nursing(K=3)	1	Job performance variables	social_intelligence, individual, employee, relationship, job_performance	11	61.1
	2	Social support-career-customer	social_support, career, customer, service, satisfaction	4	22.2
	3	Burnout-role performance	burnout, emotional, job, role, achievement	3	16.7
InternationalNon-Nursing(K=6)	1	Competency development-program	development, performance, ability, program, training	30	16.7
	2	Student-teacher SI development	student, teacher, university, academic, education	33	18.3
	3	Interpersonal-EI-media	relationship, emotional_intelligence, information, perception, communication	27	15.0
	4	Organization-leadership	emotional, role, employee, model, leadership	36	20.0
	5	Perspective-taking-inclusion	self, culture, intercultural, positive, empathy	28	15.6
	6	Individual-contextual factors	knowledge, behavior, factor, context, management	26	14.4

CONCLUSIONS

Nursing research has remained constrained by EI-centric frameworks, insufficiently capturing care and collaborative dimensions inherent to nursing practice. No nursing-specific SI measurement instrument was identified. Development of validated SI tools and expansion of intervention studies targeting nurses are strongly warranted.