Supplementary File

Appendix I: Search strategies
Final search date for all databases: December 9, 2025.

PubMed

Search	Query	Records retrieved
#1	"Students, Nursing"[Mesh] OR "nursing student"[tiab:~2] OR "nursing students"[tiab:~2] OR "undergraduate nursing"[tiab:~2] OR "nursing undergraduate"[tiab:~2] OR "baccalaureate nursing"[tiab:~2] OR "prelicensure nursing"[tiab:~2] OR "pre licensure nursing"[tiab:~2] OR bsn student*[tiab]	47,542
#2	"Pharmacology"[Mesh] OR "Drug Therapy"[Mesh] OR pharmacolog*[tiab] OR pharmacotherap*[tiab] OR drug therap*[tiab] OR medication*[tiab]	2,573,445
#3	"Education, Nursing"[Mesh] OR "Teaching"[Mesh] OR education[tiab] OR teaching[tiab] OR simulation[tiab] OR training[tiab] OR curriculum[tiab] OR instructional[tiab]	1,827,364
#4	#1 AND #2 AND #3	921

CINAHL Ultimate

Search	Query	Records retrieved
S1	MH "Students, Nursing+" OR XB (nursing student* OR student nurse* OR undergraduate nursing OR nursing undergraduate* OR baccalaureate nursing OR prelicensure nursing OR "pre licensure nursing" OR bsn student*)	69,805
S2	MH "Drug Therapy/ED" OR XB (pharmacolog* OR pharmacotherap* OR drug therap* OR medication*)	248,811
S3	MH "Education, Nursing+" OR MH "Teaching Methods+" OR MH "Curriculum+" OR TX (teaching OR simulation OR "simulation-based" OR training OR instructional OR curriculum)	1,463,675
S4	S1 AND S2 AND S3	955

PsycINFO

Search	Query	Records retrieved
S1	SU.EXACT("Nursing Students") OR ab(nursing student* OR student nurse* OR undergraduate nursing OR nursing undergraduate* OR baccalaureate nursing OR prelicensure nursing OR "pre licensure nursing" OR bsn student*) OR ti(nursing student* OR student nurse* OR undergraduate nursing OR nursing undergraduate* OR baccalaureate nursing OR prelicensure nursing OR "pre licensure nursing" OR bsn student*)	16,720
S2	SU.EXACT.EXPLODE("Pharmacology") OR SU.EXACT.EXPLODE("Drug Therapy") OR ab(pharmacolog* OR pharmacotherap* OR drug therap* OR medication*) OR ti(pharmacolog* OR pharmacotherap* OR drug therap* OR medication*)	331,940
S3	SU.EXACT("Nursing Education") OR SU.EXACT.EXPLODE("Teaching Methods") OR SU.EXACT("Curriculum Development") OR ab(simulation OR "simulation-based" OR teaching OR training OR instructional OR curriculum) OR ti(simulation OR "simulation-based" OR teaching OR training OR instructional OR curriculum)	611,232
S4	(S3 AND S2 AND S1) not (stype.exact("Dissertations & Theses" OR "Books"))	200

PsycINFO

Search	Query	Records retrieved
#1	看護学生/TH or 看護学生/TA or 看護学部学生/TA or (看護/TA and 学生/TA) or "nursing student*"/TA or "student nurse*"/TA or "undergraduate nursing"/TA	38,427
#2	薬物療法/TH or "薬理学"/TH or "薬物療法"/TA or 薬理学/TA or 投薬/TA or 薬剤投与/TA or 医薬品管理/TA or pharmacolog*/TA or pharmacotherap*/TA or "drug therapy"/TA or medication*/TA	852,435
#3	看護教育/TH or "カリキュラム"/TH or "ロールプレイ"/TH or 教育/TA or 教授法/TA or 指導法/TA or 教育プログラム/TA or カリキュラム/TA or ロールプレイ/TA or シミュレーション/TA or 演習/TA or トレーニング/TA or 研修/TA or teaching/TA or "teaching methods"/TA or instructional/TA or "instructional design"/TA or curriculum/TA or simulation/TA or training/TA or pedagogy/TA	353,823
#4	#1 and #2 and #3	576
#5	#4 and PT=原著論文	308

ERIC

Search	Query	Records retrieved
#1	nursing students OR "nursing student" OR "student nurse"	3,223
#2	pharmacology OR pharmacotherapy OR "drug therapy" OR medication	6,700
#3	teaching methods OR "instructional design" OR curriculum OR simulation OR training	647,081
#4	#1 AND #2 AND #3	41