Table 1 Search strategies for databases

1.Database: PubMed	Number of results:146Date of Update Search: February 10th, 2025							
Search limit: a. Publica	ation Dates: 2009-05-01 - 2024-12-31							
b. Huma	ns or Animal: Human							
c. Langu	age: English, Chinese							
NO.	Search strategies							
#1	student*[Title/Abstract] OR undergrad*[Title/Abstract] OR trainee*[Title/Abstract] OR pupil*[Title/Abstract]	2,372,640						
	OR educat*[Title/Abstract] OR intern*[Title/Abstract] OR pre-registrat*[Title/Abstract] OR "pre registrat*"							
	[Title/Abstract]							
#2	nurs*[Title/Abstract]	573,734						
#3	"Students, Nursing"[Mesh] OR "Education, Nursing"[Mesh]	105,296						
#4	(#1 AND #2) OR #3	208,941						
#5	#5 "Clinical Clerkship"[Mesh] OR ("Hospitals"[Mesh]) OR "Preceptorship"[Mesh]							
#6	"Clinical practice"[Title/Abstract] OR "clinical training"[Title/Abstract] OR placement*[Title/Abstract] OR	2,487,153						
	clerkship[Title/Abstract] OR preceptorship[Title/Abstract] OR rotation*[Title/Abstract] OR							
	practicum*[Title/Abstract] OR internship[Title/Abstract] OR "clinical setting*"[Title/Abstract] OR "clinical							
	environment"[Title/Abstract] OR "clinical education"[Title/Abstract] OR hospital*[Title/Abstract] OR "clinical							
	context*"[Title/Abstract]							
#7	#5 OR #6	2,595,302						
#8	"transition shock"[Title/Abstract] OR "reality shock"[Title/Abstract] OR "emotional shock"[Title/Abstract] OR	1,473						
	"culture shock"[Title/Abstract] OR "role adaptation"[Title/Abstract] OR "role transition"[Title/Abstract] OR							
	"stressful transition"[Title/Abstract] OR "transitional challenges"[Title/Abstract] OR "real-world							
	shock"[Title/Abstract] OR "maladaptive transitions"[Title/Abstract] OR "transition experience"[Title/Abstract]							
	OR "transfer* shock"[Title/Abstract] OR "shock of reality"[Title/Abstract] OR "shock reaction"[Title/Abstract]							
#9	(#4 AND #7 AND #8) AND (2009/5/1:2024/12/31[pdat]) AND (chinese[Filter] OR english[Filter]) AND	146						

Search limit: a. Publication b. Language: 1 NO. #1 TIT TIT #1 TIT #1 #2 TIT #3 #1 A #4 TIT TIT	: English, Chinese						
b. Language: 1 NO. #1 TIT TIT TIT #2 TIT #3 #1 4 #4 TIT TIT	: English, Chinese						
NO. TIT #1 TIT TIT TIT #2 TIT #3 #1 / #4 TIT TIT							
#1 TIT TIT TIT #2 TIT #3 #1 / #4 TIT TIT	Converte structure in a						
TIT #2 TIT #3 #14 #4 TIT TIT TIT	Search strategies						
TIT #2 TIT #3 #1 // #4 TIT TIT TIT	TLE-ABS-KEY(student*) OR TITLE-ABS-KEY(undergrad*) OR TITLE-ABS-KEY(trainee*) OR	9,042,349					
#2 TIT #3 #1 // #4 TIT TIT TIT	TLE-ABS-KEY(pupil*) OR TITLE-ABS-KEY(educat*) OR TITLE-ABS-KEY(intern*) OR						
#3 #1 4 #4 TIT TIT	TLE-ABS-KEY(pre-registrat*) OR TITLE-ABS-KEY("pre registrat*")						
#4 TIT TIT	TLE-ABS-KEY (nurs*)	1,050,651					
TIT	AND #2	343,327					
	TLE-ABS-KEY("clinical practice") OR TITLE-ABS-KEY("clinical training") OR	4,978,153					
	TLE-ABS-KEY(placement*) OR TITLE-ABS-KEY(clerkship) OR TITLE-ABS-KEY(preceptorship) OR						
	TLE-ABS-KEY (rotation*) OR TITLE-ABS-KEY(practicum*) OR TITLE-ABS-KEY(internship) OR						
TIT	TLE-ABS-KEY("clinical setting*") OR TITLE-ABS-KEY("clinical environment") OR						
TIT	TLE-ABS-KEY("clinical education") OR TITLE-ABS-KEY (hospital*) OR TITLE-ABS-KEY ("clinical						
con	ntext*")						
#5 TIT	TLE-ABS-KEY("transition shock") OR TITLE-ABS-KEY("reality shock") OR TITLE-ABS-KEY	4,969					
("er	emotional shock") OR TITLE-ABS-KEY("culture shock") OR TITLE-ABS-KEY("role adaptation") OR						
TIT	TLE-ABS-KEY ("role transition") OR TITLE-ABS-KEY("stressful transition") OR						
TIT	TLE-ABS-KEY("transitional challenges") OR TITLE-ABS-KEY("real-world shock") OR						
TIT	TLE-ABS-KEY("maladaptive transitions") OR TITLE-ABS-KEY("transition experience") OR						
TIT	TLE-ABS-KEY("transfer* shock") OR TITLE-ABS-KEY("shock of reality") OR TITLE-ABS-KEY("shock						
read	action")						
#6 (#3	3 AND #4 AND #5) AND (PUBYEAR > 2008 AND PUBYEAR < 2025) AND (LIMIT-TO (LANGUAGE,	287					
"En	nglish") OR LIMIT-TO (LANGUAGE, "Chinese"))	1					
3.Database: Web of Science		1					

Search limit: a. Pub	lication Years: 2009-2024				
b. Lang	guage: English, Chinese				
NO.	Search strategies	Results			
#1	TS=(student*) OR TS=(undergrad*) OR TS=(trainee*) OR TS=(pupil*) OR TS=(educat*) OR TS=(intern*)	12,945,834			
	OR TS=(pre-registrat*) OR TS=("pre registrat*")				
#2	TS=(nurs*)	1,460,253			
#3	#1 AND #2	430,919			
#4	TS=("Clinical practice") OR TS=("clinical training") OR TS=(placement*) OR TS=(clerkship) OR	7,481,724			
	TS=(preceptorship) OR TS=(rotation*) OR TS=(practicum*) OR TS=(internship) OR TS=("clinical setting*")				
	OR TS=("clinical environment") OR TS=("clinical education") OR TS=(hospital*) OR TS=("clinical context*")				
#5	TS=("transition shock") OR TS=("reality shock") OR TS=("emotional shock") OR TS=("culture shock") OR				
	TS=("role adaptation") OR TS=("role transition") OR TS=("stressful transition") OR TS=("transitional				
	challenges") OR TS=("real-world shock") OR TS=("maladaptive transitions") OR TS=("transition experience")				
	OR TS=("transfer* shock") OR TS=("shock of reality") OR TS=("shock reaction")				
#6	#3 AND #4 AND #5	510			
#7	#6 AND (2009 OR 2010 OR 2011 OR 2012 OR 2013 OR 2014 OR 2015 OR 2016 OR 2017 OR 2018 OR 2019	379			
	OR 2020 OR 2021 OR 2022 OR 2023 OR 2024) (Publication Years)				
#8	#7 AND (English or Chinese) (Languages)	355			
4.Database: Cochi	rane Library Number of results:7 Date of Update Search: February 10th, 2025				
Search limit: a. Pub	lication Dates: 2009-05-01 - 2024-12-31				
NO.	Search strategies	Results			
#1	(student*):ti,ab,kw OR (undergrad*):ti,ab,kw OR (trainee*):ti,ab,kw OR (pupil*):ti,ab,kw OR	260,666			
	(educat*):ti,ab,kw OR (intern*):ti,ab,kw OR (pre-registrat*):ti,ab,kw OR (pre NEXT registrat*):ti,ab,kw				
#2	(nurs*):ti,ab,kw	61,966			
#3	#1 AND #2	21,120			

#4	MeSH descriptor: [Students, Nursing] explode all trees	920								
#5	MeSH descriptor: [Education, Nursing] explode all trees	1,314								
#6	#3 OR #4 OR #5	21,120								
#7	("Clinical practice"):ti,ab,kw OR ("clinical training"):ti,ab,kw OR (placement*):ti,ab,kw OR	320,646								
	(clerkship):ti,ab,kw OR (preceptorship):ti,ab,kw OR (rotation*):ti,ab,kw OR (practicum*):ti,ab,kw OR									
	(internship):ti,ab,kw OR (clinical NEXT setting*):ti,ab,kw OR ("clinical environment"):ti,ab,kw OR ("clinical									
	education"):ti,ab,kw OR (hospital*):ti,ab,kw OR (clinical NEXT context*):ti,ab,kw									
#8	#8 MeSH descriptor: [Clinical Clerkship] explode all trees									
#9	#9 MeSH descriptor: [Preceptorship] explode all trees									
#10	MeSH descriptor: [Hospitals] explode all trees	5,967								
#11	#7 OR #8 OR #9 OR #10	321,014								
#12	("transition shock"):ti,ab,kw OR ("reality shock"):ti,ab,kw OR ("emotional shock"):ti,ab,kw OR ("culture	72								
	shock"):ti,ab,kw OR ("role adaptation"):ti,ab,kw OR ("role transition"):ti,ab,kw OR ("stressful									
	transition"):ti,ab,kw OR ("transitional challenges"):ti,ab,kw OR ("real-world shock"):ti,ab,kw OR									
	("maladaptive transitions"):ti,ab,kw OR ("transition experience"):ti,ab,kw OR (transfer* NEXT shock):ti,ab,kw									
	OR ("shock of reality"):ti,ab,kw OR ("shock reaction"):ti,ab,kw									
#13	#6 AND #11 AND #12 with Cochrane Library publication date Between May 2009 and Dec 2024	7								
5.Database: Sciencel	Direct Number of results:11 Date of Update Search: February 11th, 2025									
Search limit: a. Public	cation Years: 2009-2024									
NO.	Search strategies	Results								
#1	Title, abstract, keywords:("nursing students" OR "nursing interns" OR "Pupil Nurses") AND ("clinical	11								
	practice" OR "clinical placement" OR "clinical practicum") AND ("transition shock" OR "reality shock" OR									
	"transition experience")									

	Max 8 Boolean connectors	
	Wildcards not supported	
6.Database: Embase	Number of results:181	
Search limit: a. Publica	ation Years: 2009-2024	
b. Huma	ns or Animal: Human	
c. Langu	age: English, Chinese	
NO.	Search strategies	Results
#1	'nursing student'/exp	36,537
#2	'nursing education'/exp	101,752
#3	student*:ti,ab,kw OR undergrad*:ti,ab,kw OR trainee*:ti,ab,kw OR pupil*:ti,ab,kw OR educat*:ti,ab,kw OR	3,226,975
	intern*:ti,ab,kw OR 'pre registrat*':ti,ab,kw	
#4	nurs*:ti,ab,kw	689,402
#5	#3 AND #4	198,770
#6	#1 OR #2 OR #5	257,318
#7	'clinical practice':ti,ab,kw OR 'clinical training':ti,ab,kw OR placement*:ti,ab,kw OR clerkship:ti,ab,kw OR	3,737,457
	preceptorship:ti,ab,kw OR rotation*:ti,ab,kw OR practicum*:ti,ab,kw OR internship:ti,ab,kw OR 'clinical	
	setting*':ti,ab,kw OR 'clinical environment':ti,ab,kw OR 'clinical education':ti,ab,kw OR hospital*:ti,ab,kw OR	
	'clinical context*':ti,ab,kw	
#8	'clinical education'/exp	18,319
#9	'hospital'/exp	1,592,843
#10	#7 OR #8 OR #9	4,424,643
#11	'transition shock':ti,ab,kw OR 'reality shock':ti,ab,kw OR 'emotional shock':ti,ab,kw OR 'culture shock':ti,ab,kw	1,739
	OR 'role adaptation':ti,ab,kw OR 'role transition':ti,ab,kw OR 'stressful transition':ti,ab,kw OR 'transitional	
	challenges':ti,ab,kw OR 'real-world shock':ti,ab,kw OR 'maladaptive transitions':ti,ab,kw OR 'transition	
	experience':ti,ab,kw OR 'transfer* shock':ti,ab,kw OR 'shock of reality':ti,ab,kw OR 'shock reaction':ti,ab,kw	
#12	#6 AND #10 AND #11	249

#13	#12 AND ([chinese]/lim OR [english]/lim) AND [humans]/lim AND [2009-2024]/py	181						
7.Database: ProQuest	t Number of results:27 Date of Update Search: February 11th, 2025							
Search limit: a. Publica	ation Dates: 2009-05-01 - 2024-12-31							
b. Langu	age: English, Chinese							
NO.	Search strategies	Results						
#1	title (student* OR undergrad* OR trainee* OR pupil* OR educat* OR intern* OR pre-registrat* OR "pre	773,204						
	registrat*") OR abstract (student* OR undergrad* OR trainee* OR pupil* OR educat* OR intern* OR							
	pre-registrat* OR "pre registrat*")							
#2	title(nurs*) OR abstract(nurs*)	67,252						
#3	#3 #1 AND #2							
#4	title ("clinical practice" OR "clinical training" OR placement* OR clerkship OR preceptorship OR rotation* OR	473,472						
	practicum* OR internship OR "clinical setting*" OR "clinical environment" OR "clinical education" OR							
	hospital* OR "clinical context*") OR abstract ("clinical practice" OR "clinical training" OR placement* OR							
	clerkship OR preceptorship OR rotation* OR practicum* OR internship OR "clinical setting*" OR "clinical							
	environment" OR "clinical education" OR hospital* OR "clinical context*")							
#5	title ("transition shock" OR "reality shock" OR "emotional shock" OR "culture shock" OR "role adaptation" OR	455						
	"role transition" OR "stressful transition" OR "transitional challenges" OR "real-world shock" OR "maladaptive							
	transitions" OR "transition experience" OR "transfer* shock" OR "shock of reality" OR "shock reaction") OR							
	abstract ("transition shock" OR "reality shock" OR "emotional shock" OR "culture shock" OR "role adaptation"							
	OR "role transition" OR "stressful transition" OR "transitional challenges" OR "real-world shock" OR							
	"maladaptive transitions" OR "transition experience" OR "transfer* shock" OR "shock of reality" OR "shock							
	reaction")							
#6	#3 AND #4 AND #5	27						

8.Database: PsycInfo	Number of results:112 Date of Update Search: February 11th, 2025							
Search limit: a. Publica	ation Dates: 2009-05-01 - 2024-12-31							
b. Huma	ns or animal: Human							
c. Langu	age: English, Chinese							
NO.	Search strategies							
#1	TX (student* OR undergrad* OR trainee* OR pupil* OR educat* OR intern* OR pre-registrat* OR "pre							
	registrat*")							
#2	TX nurs*	220,312						
#3	#1 AND #2	121,035						
#4	TX ("clinical practice" OR "clinical training" OR placement* OR clerkship OR preceptorship OR rotation* OR practicum* OR internship OR "clinical setting*" OR "clinical environment" OR "clinical education" OR hospital* OR "clinical context*")							
#5	TX ("transition shock" OR "reality shock" OR "emotional shock" OR "culture shock" OR "role adaptation" OR "role transition" OR "stressful transition" OR "transitional challenges" OR "real-world shock" OR "maladaptive transitions" OR "transition experience" OR "transfer* shock" OR "shock of reality" OR "shock reaction")	1,863						
#6	#3 AND #4 AND #5	112						
9.Database: CINAHI	Plus with Full Text Number of results: 158 Date of Update Search: February 11th, 2025							
Search limit: a. Publica	ation Dates: 2009-05-01 - 2024-12-31							
b. Huma	ns or animal: Human							
c. Langu	age: English, Chinese							
NO.	Search strategies	Results						
#1	MH "Students, Nursing"	38,325						
#2	MH "Education, Nursing"	53,834						

#3	TI (student* OR undergrad* OR trainee* OR pupil* OR educat* OR intern* OR pre-registrat* OR "pre	861,039
	registrat*") OR AB (student* OR undergrad* OR trainee* OR pupil* OR educat* OR intern* OR pre-registrat*	
	OR "pre registrat*")	
#4	TI nurs* OR AB nurs*	600,397
#5	#3 AND #4	153,744
#6	#1 OR #2 OR #5	191,277
#7	MH "Education, Clinical"	12,826
#8	MH "Hospitals"	69,369
#9	MH "Preceptorship"	5,238
#10	TI ("clinical practice" OR "clinical training" OR placement* OR clerkship OR preceptorship OR rotation* OR	754,599
	practicum* OR internship OR "clinical setting*" OR "clinical environment" OR "clinical education" OR	
	hospital* OR "clinical context*") OR AB ("clinical practice" OR "clinical training" OR placement* OR	
	clerkship OR preceptorship OR rotation* OR practicum* OR internship OR "clinical setting*" OR "clinical	
	environment" OR "clinical education" OR hospital* OR "clinical context*")	
#11	#7 OR #8 OR #9 OR #10	790,843
#12	MH "Reality Shock"	245
#13	TI ("transition shock" OR "reality shock" OR "emotional shock" OR "culture shock" OR "role adaptation" OR	1,279
	"role transition" OR "stressful transition" OR "transitional challenges" OR "real-world shock" OR "maladaptive	
	transitions" OR "transition experience" OR "transfer* shock" OR "shock of reality" OR "shock reaction") OR	
	AB ("transition shock" OR "reality shock" OR "emotional shock" OR "culture shock" OR "role adaptation" OR	
	"role transition" OR "stressful transition" OR "transitional challenges" OR "real-world shock" OR "maladaptive	
	transitions" OR "transition experience" OR "transfer* shock" OR "shock of reality" OR "shock reaction")	
#14	#12 OR #13	1,421

#15	#6 AND #11 AND #14	158									
10.Database: Google	ScholarNumber of results:16,200Date of Update Search: February 12th, 2025										
Search limit: a. Public	ation Years: 2009-2024										
NO.	Search strategies	Results									
#1	((student* OR undergrad* OR trainee* OR pupil* OR educat* OR intern* OR pre-registrat* OR "pre	16,200 (limit to									
	registrat*") AND nurs*) AND ("clinical practice" OR "clinical training" OR placement* OR clerkship OR	the first 20 pages)									
	preceptorship OR rotation* OR practicum* OR internship OR "clinical setting*" OR "clinical environment" OR "clinical education" OR hospital* OR "clinical context*") AND ("transition shock" OR "reality shock" OR										
	"emotional shock" OR "culture shock" OR "role adaptation" OR "role transition" OR "stressful transition" OR										
	"transitional challenges" OR "real-world shock" OR "maladaptive transitions" OR "transition experience" OR										
	"transfer* shock" OR "shock of reality" OR "shock reaction")										
	Search limit:2009-2024										
11.Database: OpenG	ey Number of results:0 Date of Update Search: February 12th, 2025										
Search limit: None											
NO.	Search strategies	Results									
#1	((student* OR undergrad* OR trainee* OR pupil* OR educat* OR intern* OR pre-registrat* OR "pre	0									
	registrat*") AND nurs*) AND ("clinical practice" OR "clinical training" OR placement* OR clerkship OR										
	preceptorship OR rotation* OR practicum* OR internship OR "clinical setting*" OR "clinical environment" OR										
	"clinical education" OR hospital* OR "clinical context*") AND ("transition shock" OR "reality shock" OR										
	"emotional shock" OR "culture shock" OR "role adaptation" OR "role transition" OR "stressful transition" OR										
	"transitional challenges" OR "real-world shock" OR "maladaptive transitions" OR "transition experience" OR										
	"transfer* shock" OR "shock of reality" OR "shock reaction")										

12.Database: CNKI	12.Database: CNKI Number of results:72 Date of Update Search: February 12th, 2025							
Search limit: a. Publica	Search limit: a. Publication Dates: 2009-05-01 - 2024-12-31							
NO.	Search strategies	Results						
#1	TKA='护理学生' + '护理专业学生' + '护生' + '护理本科生' + '护理专业本科生' + '实习护士' + '护理专业实	72						
	习生' + '护理实习生' AND TKA= '临床实习' + '实习' + '毕业实习' + '临床学习' + '临床实践' + '医院实习'							
	AND TKA='转型冲击' + '现实冲击' + '角色适应' + '冲击体验' + '角色转型' + '文化休克'							
13.Database: Wan Fa	ang Number of results:89 Date of Update Search: February 12th, 2025							
Search limit: a. Publica	ation Years: 2009-2024							
NO.	Search strategies	Results						
#1	(主题:("护理学生" OR "护理专业学生" OR "护生" OR "护理本科生" OR "护理专业本科生" OR "实习护士	89						
	" OR "护理专业实习生" OR "护理实习生") and 主题:("临床实习" OR "实习" OR "毕业实习" OR "临床学							
	习" OR "临床实践" OR "医院实习") and 主题:("转型冲击" OR "现实冲击" OR "角色适应" OR "冲击体验"							
	OR "角色转型" OR "文化休克")) and 发表时间:2009-2024							
14.Database: SinoMe	d Number of results:73 Date of Update Search: February 12th, 2025							
Search limit: a. Publica	ation Years: 2009-2024							
b. Huma	ns or Animal: Human							
NO.	Search strategies	Results						
#1	"学生, 护理"[不加权:扩展]	24,595						

#2	"教育, 护理"[不加权:扩展]	38,897
#3	"护理学生"[常用字段:智能] OR "护理专业学生"[常用字段:智能] OR "护生"[常用字段:智能] OR "护理本	82,986
	科生"[常用字段:智能] OR "护理专业本科生"[常用字段:智能] OR "实习护士"[常用字段:智能] OR "护理专	
	业实习生"[常用字段:智能] OR "护理实习生"[常用字段:智能]	
#4	#1 OR #2 OR #3	68,088
#5	"临床实习"[不加权:扩展]	29,864
#6	"导师制"[不加权:扩展]	8,944
#7	"医院"[不加权:扩展]	84,991
#8	"临床实习"[常用字段:智能] OR "实习"[常用字段:智能] OR "毕业实习"[常用字段:智能] OR "临床学习	230,991
	"[常用字段:智能] OR "临床实践"[常用字段:智能] OR "医院实习"[常用字段:智能]	
#9	#5 OR #6 OR #7 OR #8	591,973
#10	"转型冲击"[常用字段:智能] OR "现实冲击"[常用字段:智能] OR "角色适应"[常用字段:智能] OR "冲击体	1,162
	验"[常用字段:智能] OR "角色转型"[常用字段:智能] OR "文化休克"[常用字段:智能]	
#11	((#4) AND (#9) AND (#10)) AND (人类[特征词]) AND 2009-2024[日期]	73

Table 2 Data Extraction Form

NO.	Author(s)	Year of	Country of	Aim	Study	Settings	Population	Assessment	Influencing	Outcomes	Intervention	Key
		publication	origin		design		and sample	tools	factors		strategies	findings
							size					

Note:

(1) population and sample size included social demographic of the participants and sample size;

(2) intervention strategies were defined as measures or programs provided to reduce participants' transition shock;

- (3) outcomes referred to the variables or items influenced by transition shock;
- (4) assessment tools were specific tools or scales used to assess transition shock of nursing students;
- (5) setting referred to the specific location where the study was conducted;
- (6) country of origin referred to which country the study was conducted;
- (7) key findings referred to other information related to the review questions and objectives;
- (8) influencing factors referred to the variables or items that affected transition shock of nursing students.