

Supplement 1. Database Search Strategies

Database	#	Search syntax	Citations found
EMBASE	1	(child* OR juvenil* OR paediatric* OR pediatric* adolesc* OR preadolesc* OR pre-adolesc* teen* OR preteen* OR pre-teen* OR youth* OR young* kid*):ti,ab,kw	25,539
	2	"juvenile"/exp	4,061,899
	3	(diabet* OR 'type 1 diabet*' OR IDDM OR T1D* OR 'insulin* depend*' OR 'juvenile diabet*'):ti,ab,kw	1,079,118
	4	'insulin dependent diabetes mellitus'/exp	130,245
	5	((famil* OR caregiver* OR care* OR parent* OR mother* OR father* OR paternal* OR maternal* OR relative* OR 'sibling*') AND (management* OR teach* OR counsel* OR program* OR therap* OR intervention* OR treatment* OR educat* OR train*)):ti,ab,kw	2,918,518
	6	'family therapy'/exp	14,329
	7	('glycemic index' OR 'glycemic control*' OR 'glucose target*' OR 'glucose control*' OR 'glucose level*' OR A1C OR HbA1C):ti,ab,kw	195,479
	8	"hemoglobin A1c"/exp	124,556
	9	(#1 OR #2) AND (#3 OR #4) AND (#5 OR #6) AND (#7 OR #8)	6,284
	10	#9 AND (2009:py OR 2010:py OR 2011:py OR 2012:py OR 2013:py OR 2014:py OR 2015:py OR 2016:py OR 2017:py OR 2018:py OR 2019:py OR 2020:py OR 2021:py) AND 'randomized controlled trial'/de	436
Medline (Ovid)	1	(child* OR juvenil* OR paediatric* OR pediatric* adolesc* OR preadolesc* OR pre-adolesc* teen* OR preteen* OR pre-teen* OR youth* OR young* kid*):tw	1,653,139
	2	exp "child"/ OR exp "adolescent"/	3,210,980
	3	(diabet* OR 'type 1 diabet*' OR IDDM OR T1D* OR 'insulin* depend*' OR 'juvenile diabet*'):tw	695,532
	4	exp "Diabetes Mellitus, Type 1"/	80,947
	5	((famil* OR caregiver* OR care* OR parent* OR mother* OR father* OR paternal* OR maternal* OR relative* OR 'sibling*') AND (management* OR teach* OR counsel* OR program* OR therap* OR intervention* OR treatment* OR educat* OR train*)):tw	1,990,285
	6	exp "Family Therapy"/	9,061
	7	("glycemic index" OR "glycemic control*" OR "glucose target*" OR "glucose control*" OR "glucose level*" OR A1C OR HbA1C).tw	120,348
	8	exp "Glycated Hemoglobin A"/	38,602
	9	(1 OR 2) AND (3 OR 4) AND (5 OR 6) AND (7 OR 8)	3,376
	10	limit 9 to (english language and full text and humans and yr="2009-Current" and randomized controlled trial)	112
CENTRAL (Cochrane Library)	1	(child* OR juvenil* OR paediatric* OR pediatric* adolesc* OR preadolesc* OR pre-adolesc* teen* OR preteen* OR pre-teen* OR youth* OR young* kid*):ti,ab,kw	180,412
	2	[mh "child"] OR [mh "adolescent"]	138,460
	3	(diabet* OR 'type 1 diabet*' OR IDDM OR T1D* OR 'insulin* depend*' OR 'juvenile diabet*'):ti,ab,kw	103,960
	4	[mh "Diabetes Mellitus, Type 1"]	5,872
	5	((famil* OR caregiver* OR care* OR parent* OR mother* OR father* OR paternal* OR maternal* OR relative* OR 'sibling*') AND (management* OR teach* OR counsel* OR program* OR therap* OR intervention* OR treatment* OR educat* OR train*)):ti,ab,kw	349,712
	6	[mh "family therapy"] OR [mh "family nursing"]	1,037
	7	('glycemic index' OR 'glycemic control*' OR 'glucose target*' OR 'glucose control*' OR 'glucose level*' OR A1C OR HbA1C):ti,ab,kw	72,485
	8	[mh "Glycated Hemoglobin A "] OR [mh "Glycemic Control"]	158
	9	(#1 OR #2) AND (#3 OR #4) AND (#5 OR #6) AND (#7 OR #8)	1,441
CINAHL	1	TI (child* OR juvenil* OR paediatric* OR pediatric* adolesc* OR preadolesc* OR pre-adolesc* teen* OR preteen* OR pre-teen* OR youth* OR young* kid*) OR AB (child* OR juvenil* OR paediatric* OR pediatric* adolesc* OR preadolesc* OR pre-adolesc* teen* OR preteen* OR pre-teen* OR youth* OR young* kid*)	600,969
	2	MH ("Child+" OR "Adolescence+")	1,057,409
	3	TI (diabet* OR 'type 1 diabet*' OR IDDM OR T1D* OR 'insulin* depend*' OR 'juvenile diabet*') OR AB (diabet* OR 'type 1 diabet*' OR IDDM OR T1D* OR 'insulin* depend*' OR 'juvenile diabet*')	224,120
	4	MH ("Diabetes Mellitus, Type 1+")	27,349

Supplement 1. Database Search Strategies (Continued)

Database	#	Search syntax	Citations found	
CINAHL	5	(TI (famil* OR caregiver* OR care* OR parent* OR mother* OR father* OR paternal* OR maternal* OR relative* OR sibling*) AND TI (management* OR teach* OR counsel* OR program* OR therap* OR intervention* OR treatment* OR educat* OR train*)) OR (AB (famil* OR caregiver* OR care* OR parent* OR mother* OR father* OR paternal* OR maternal* OR relative* OR sibling*) AND AB (management* OR teach* OR counsel* OR program* OR therap* OR intervention* OR treatment* OR educat* OR train*))	771,336	
	6	MH ("Family therapy+" OR "Family centered care+")	14,325	
	7	TI ("glycemic index" OR "glycemic control*" OR "glucose target*" OR "glucose control*" OR "glucose level*" OR A1C OR HbA1C) OR AB ("glycemic index" OR "glycemic control*" OR "glucose target*" OR "glucose control*" OR "glucose level*" OR A1C OR HbA1C)	38,675	
	8	MH ("Hemoglobin A, Glycosylated+" OR "Glycemic control+")	26,856	
	9	(S1 or S2) AND (S3 OR S4) AND (S5 OR S6) AND (S7 OR S8)	451	
	10	S9 and (MH ("randomized controlled trials" OR "double – blind studies" OR "single – blind studies" OR "random assignment" OR "pretest – posttest design" OR "cluster sample") OR TI (randomised OR randomized) OR AB (random*) OR TI (trial) OR MH (sample size) AND AB (assigned OR allocated OR control)) OR MH (placebos) OR PT (randomized controlled trial) OR AB (control W5 group) OR MH ("crossover design" OR "comparative studies") OR AB (cluster W3 RCT)) NOT ((MH ("animals+" OR "animal studies") OR TI (animal model*)) NOT MH (human))	204	
	Scopus	1	title-abs-key (child* OR juvenil* OR paediatric* OR pediatric* adolesc* OR preadolesc* OR pre-adolesc* teen* OR preteen* OR pre-teen* OR youth* OR young* kid*)	12,713
	2	title-abs-key (diabet* OR type 1 diabet* OR iddm OR t1d* OR "insulin* depend*" OR "juvenile diabet*")	336,466	
	3	title-abs-key ((famil* OR caregiver* OR care* OR parent* OR mother* OR father* OR paternal* OR maternal* OR relative* OR sibling*) AND (management* OR teach* OR counsel* OR program* OR therap* OR intervention* OR treatment* OR educat* OR train*))	4,785,339	
	4	title-abs-key (glycemic index OR glycemic control* OR glucose target* OR glucose control* OR glucose level* OR a1c OR hba1c)	45,248	
5	#1 AND #2 AND #3 AND #4	14		
6	#6 ND (LIMIT-TO (PUBYEAR, 2021) OR LIMIT-TO (PUBYEAR, 2020) OR LIMIT-TO (PUBYEAR, 2019) OR LIMIT-TO (PUBYEAR, 2016) OR LIMIT-TO (PUBYEAR, 2014) OR LIMIT-TO (PUBYEAR, 2013))	11		
Web of Science	1	ti=(child* OR juvenil* OR paediatric* OR pediatric* adolesc* OR preadolesc* OR pre-adolesc* teen* OR preteen* OR pre-teen* OR youth* OR young* kid*) OR ab= (child* OR juvenil* OR paediatric* OR pediatric* adolesc* OR preadolesc* OR pre-adolesc* teen* OR preteen* OR pre-teen* OR youth* OR young* kid*)	1,707,881	
	2	ti=(diabet* OR "type 1 diabet*" OR IDDM OR T1D* OR "insulin* depend*" OR "juvenile diabet*") OR ab= (diabet* OR "type 1 diabet*" OR IDDM OR T1D* OR "insulin* depend*" OR "juvenile diabet*")	731,619	
	3	(ti=(famil* OR caregiver* OR care* OR parent* OR mother* OR father* OR paternal* OR maternal* OR relative* OR sibling*) AND ti= (management* OR teach* OR counsel* OR program* OR therap* OR intervention* OR treatment* OR educat* OR train*)) OR (ab=(famil* OR caregiver* OR care* OR parent* OR mother* OR father* OR paternal* OR maternal* OR relative* OR sibling*) AND ab=(management* OR teach* OR counsel* OR program* OR therap* OR intervention* OR treatment* OR educat* OR train*))	1,949,385	
	4	ti=("glycemic index" OR "glycemic control*" OR "glucose target*" OR "glucose control*" OR "glucose level*" OR A1C OR HbA1C) OR ab=("glycemic index" OR "glycemic control*" OR "glucose target*" OR "glucose control*" OR "glucose level*" OR A1C OR HbA1C)	110,405	
	5	#4 AND #3 AND #2 AND #1	1,443	
	6	#4 AND #3 AND #2 AND #1 and 2009 or 2010 or 2011 or 2021 or 2020 or 2019 or 2018 or 2017 or 2016 or 2015 or 2014 or 2013 or 2012 (Publication Years) and English (Languages)	1,117	
	7	#6 AND (TS=clinical trial* OR TS=research design OR TS=comparative stud* OR TS=evaluation stud* OR TS=controlled trial* OR TS=evaluation stud* OR TS=prospective stud* OR TS=random* OR TS=placebo* OR TS= (single blind*) OR TS= (double blind*))	542	