

**Novel Citation-Based Search Method for Scientific Literature:
A Validation Study**

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SUPPLEMENTARY TABLES AND FIGURES

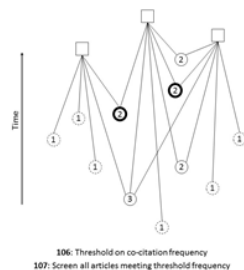
Supplementary Figure 1 Overview of the search methods

Co-citation search

Query articles



Search



Screened articles

Title	Count
Exposure to benzene, other hydrocarbons and acute childhood leukemia	62
Residential exposure to traffic and childhood cancer	53
Road traffic and childhood leukemia	44
Air pollution from traffic and childhood cancer	35
Traffic density and risk of childhood leukemia	29
Exposure motor vehicle exhaust and childhood cancer	27
Traffic density in proximity to home and childhood leukemia	25
Residential traffic density and childhood cancer	24
Proximity to main roads, petrol stations and incidence of childhood cancer	24
Traffic patterns and incidence childhood cancer	21
Household air pollutants and childhood cancer	19
Residence next to petrol stations garages and acute childhood leukemia	15
Exposure to gasoline and childhood leukemia	15
Exposure to fine particulate air pollution and lung cancer	14
Air pollution and childhood cancer	14
Hazard proximities of childhood cancers	12
Residential traffic density and cancer incidence	12
Residential traffic density and childhood leukemia	11
Nitrate in drinking water and mortality risk from childhood brain tumors	11
Traffic air pollution and childhood leukemia	11
Environmental risk factors of childhood leukemia	10
Spatial epidemiology: methods and applications	10
Exposure to household solvents and childhood acute leukemia	10
Oil combustion and childhood cancers	10
Hazardous air pollutants and childhood cancer	10

Retrieved articles

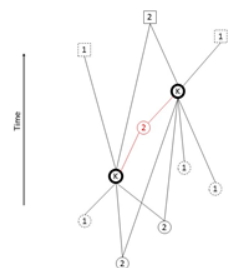


Citation search

Query articles



Search



Screened articles

Title	Count
Steroids in TH	33
Topical antimicrobic acid in TH	23
Antimicrobic acid in TH	22
Corticosteroids in TH	20
Management of TH	19
Monocular versus binocular ptosis in TH	18
Surgical versus medical treatment in TH	18
Atropine in TH	17
Uvinkaine in TH	15
Epidemiologic antimicrobic acid in TH	14
Clinical characteristics and etiology in TH	14
Observations on TH	14
TH in children	13
Transaminic acid in TH	13
Antimicrobic acid versus prednisone in TH	12
Antimicrobic acid in TH	12
TH in urban population	12
Relieving after TH	12
Pathogenesis and management of TH	12
Report of 200 cases with TH	11
Epidemiologic antimicrobic acid in TH	10
Treatment of TH	10
Antimicrobic acid in TH	10
Relieving after TH	10
Management of TH in children	10

Retrieved articles



Articles retrieved by the co-citation search were used as query articles for the citation search. Searches were conducted using our web tool (see Methods). We screened results of both searches to find the articles included in the published review.

Supplementary Figure 2 How CoCites works in practice: an example

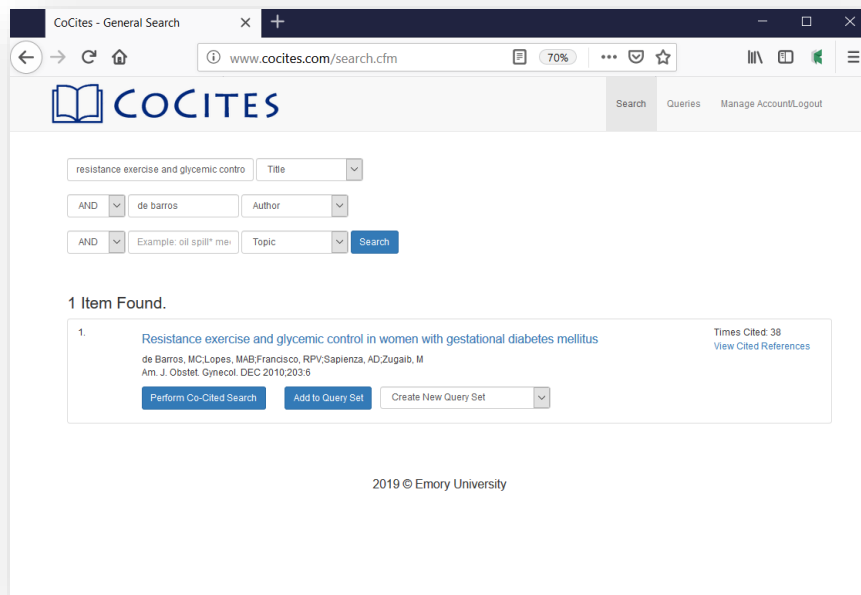


Fig. 3a

In this example, we aim to find related articles for:

De Barros *et al.* Resistance exercise and glycemic control in women with gestational diabetes mellitus. *Am J Obstet Gynecol* 2010.

The first step is to find this article in our web tool. Fig 3a shows that the article is cited 38 times.

To run the co-citation search, we click the button "Perform Co-Cited Search."

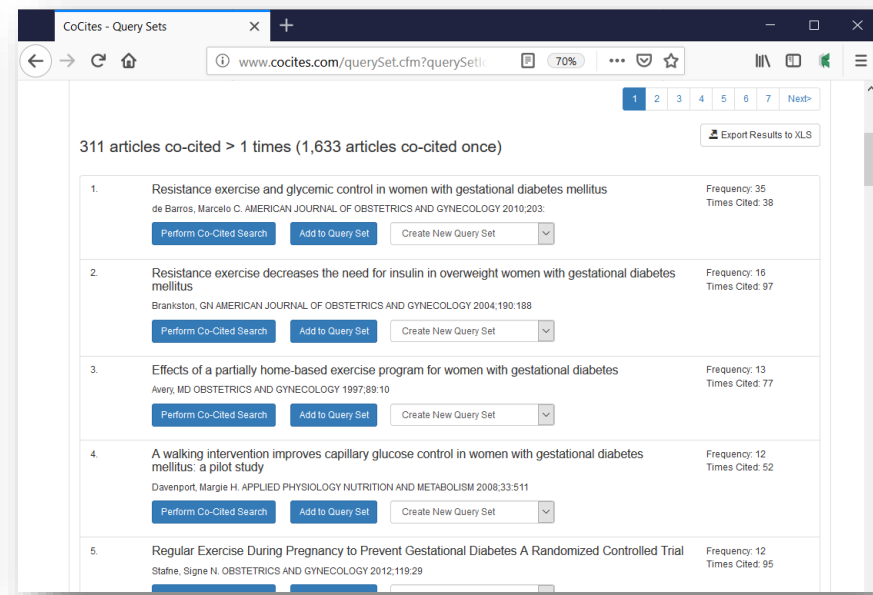


Fig. 3b

The co-citation search returned 311 articles that were co-cited more than once with the article of De Barros *et al.* (Fig. 3b). The frequency is the number of times an article is co-cited with the query article. For example, the article of Brankston *et al.* is cited 97 times and co-cited with De Barros *et al.* 16 times.

The first article is the query article. Note that its frequency is 35 instead of 38, which means the article was cited 3 times by articles that are not indexed in WOS (see methods).

Supplementary Figure 2 (continued)

Title	Year	Times Cited	Freq
1 Resistance exercise and glycemic control in women with gestational diabetes mellitus	2010	38	35
2 Resistance exercise decreases the need for insulin in overweight women with gestational diabetes mellitus	2004	97	16
3 Effects of a partially home-based exercise program for women with gestational diabetes	1997	77	13
4 A walking intervention improves capillary glucose control in women with gestational diabetes mellitus: a pilot study	2008	52	12
5 Regular Exercise During Pregnancy to Prevent Gestational Diabetes A Randomized Controlled Trial	2012	95	12
6 Hyperglycemia and adverse pregnancy outcomes	2008	2019	11
7 Randomized trial of diet versus diet plus cardiovascular conditioning on glucose-levels in gestational diabetes	1989	126	9
8 Prevention of Gestational Diabetes Feasibility issues for an exercise intervention in obese pregnant women	2010	86	8
9 A lifestyle intervention of weight-gain restriction: diet and exercise in obese women with gestational diabetes mellitus	2007	119	8
10 Simple lifestyle recommendations and the outcomes of gestational diabetes . A 2x2 factorial randomized trial	2014	26	8
11 No effect of the FitFor2 exercise programme on ... in pregnant women who were overweight and at risk for gestational diabetes	2012	73	7
12 Guidelines of the American College of Obstetricians and Gynecologists for exercise during pregnancy and the postpartum period	2003	299	7
13 Exercise during pregnancy improves maternal glucose screen at 24-28 weeks: a randomised controlled trial	2012	80	7
14 Physical Activity Before and During Pregnancy and Risk of Gestational Diabetes Mellitus A meta-analysis	2011	185	7
15 A Multicenter, Randomized Trial of Treatment for Mild Gestational Diabetes .	2009	931	7
16 Exercise in gestational diabetes - an optional therapeutic approach	1991	107	7
17 Effect of treatment of gestational diabetes mellitus on pregnancy outcomes	2005	1556	7
18 Summary and recommendations of the Fifth International Workshop-Conference on Gestational Diabetes Mellitus	2007	652	6
19 A comparison of glyburide and insulin in women with gestational diabetes mellitus	2000	474	6
20 IAD-PGS Recommendations on the Diagnosis and Classification of Hyperglycemia in Pregnancy	2010	1682	6
21 Aerobic exercise and submaximal functional capacity in overweight pregnant women - A randomized trial	2005	69	6
22 Effect of exercise intensity and duration on ... glucose responses in pregnant women at low and high risk for gestational diabetes	2012	31	6
23 Exercise Training in Pregnancy Reduces Offspring Size without Changes in Maternal Insulin Sensitivity	2010	123	6
24 Home-Based Exercise Training Improves Capillary Glucose Profile in Women with Gestational Diabetes	2014	25	6
25 Exercise during pregnancy and gestational diabetes -related adverse effects: a randomised controlled trial	2013	63	6

Fig. 3c

The table in Fig. 3c shows the top 25 results of the co-citation search. Like the query article, most articles are about exercise (red) and gestational diabetes (blue) and published around the same time as the query article or earlier. Note that the highly-cited articles (cited >500 times) in the list are 'generic' articles on gestational diabetes; all others are on exercise and gestational diabetes.

Next, to find recent related articles, we perform a citation search on the top 10 articles on exercise and gestational diabetes in Fig. 3c (which is articles #1-11, excluding #6). We select these articles and add them to the query set, see "Add to query set" button in Fig. 3b.

Supplementary Figure 2 (continued)

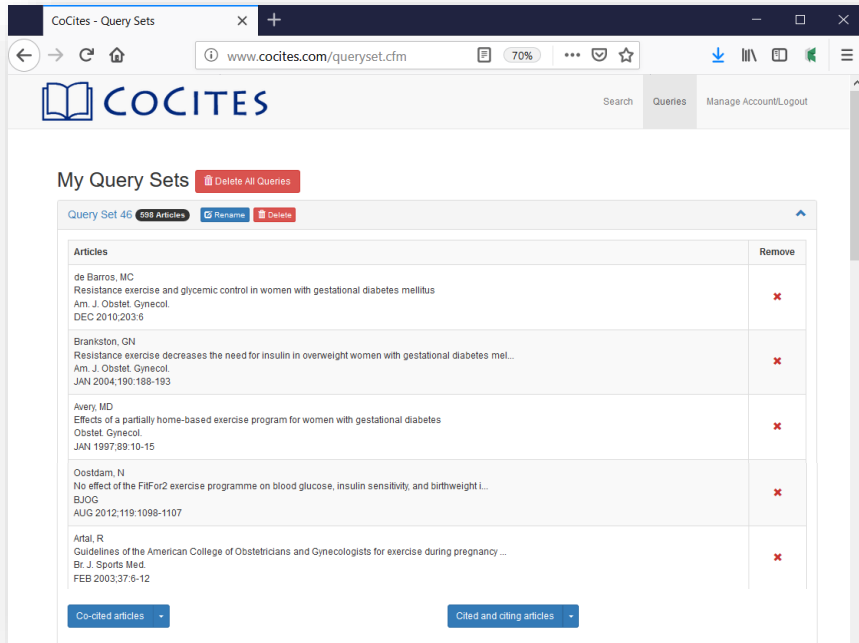


Fig. 3d

Fig. 3d shows the new query set (the list is truncated presentation, the search included the 10 articles).

To run the citation search, we click the button “Cited and citing articles.” (The button “Co-cited articles” performs the same co-citation search as previous but on the entire query set.)

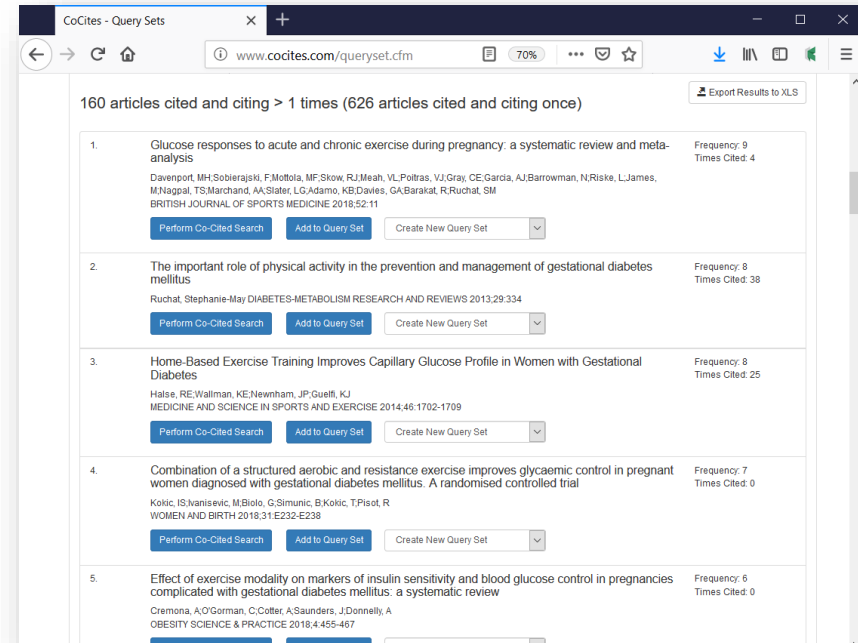


Fig. 3e

Fig. 3e shows the results of the citation search. The frequency is now the citation frequency. For each article, the frequency is the sum of the number of query articles that *cite* the article and the number of query articles that are *cited by* the article (see Methods).

Supplementary Figure 2 (continued)

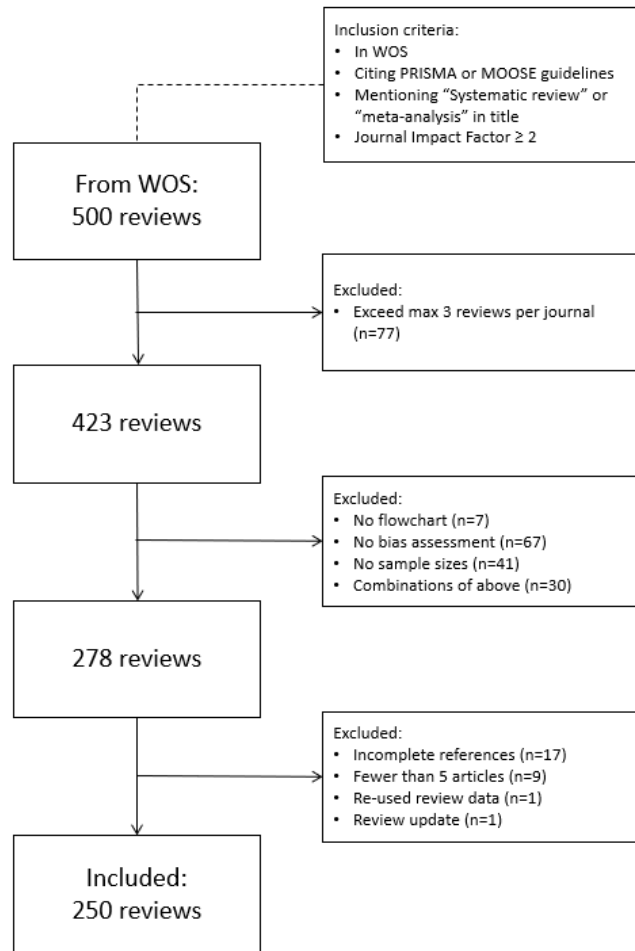
Title	Year	Times Cited	Freq
1 Glucose responses to acute and chronic exercise during pregnancy : a systematic review and meta-analysis	2018	4	9
2 The important role of physical activity in the prevention and management of gestational diabetes mellitus	2013	38	8
3 Home-Based Exercise Training Improves Capillary Glucose Profile in Women with Gestational Diabetes	2014	25	8
4 Combination of ... and resistance exercise improves glycaemic control in pregnant women ... with gestational diabetes mellitus	2018	0	7
5 Effect of exercise modality on ... blood glucose control in pregnancies complicated with gestational diabetes mellitus	2018	0	6
6 Impact of prenatal exercise on neonatal and childhood outcomes: a systematic review and meta-analysis	2018	4	6
7 Simple lifestyle recommendations and the outcomes of gestational diabetes . A 2x2 factorial randomized trial	2014	25	6
8 Exercise and gestational diabetes mellitus	2014	0	6
9 Physical Activity and Gestational Diabetes Mellitus	2014	5	6
10 Resistance Exercise in Pregnancy and Outcome	2016	2	5
11 The efficacy of physiotherapy for the prevention and treatment of prenatal symptoms: a systematic review	2015	1	5
12 Randomized trial of diet versus diet plus cardiovascular conditioning on glucose-levels in gestational diabetes	1989	126	5
13 Interventions to improve physical activity during pregnancy : a systematic review on ...	2017	2	5
14 The Effect of Self-care Educational/ Training Interventions on the Outcomes of Gestational Diabetes : A Review Article	2018	1	5
15 Physical activity during pregnancy is associated with a lower prevalence of gestational diabetes mellitus in Vietnam	2018	0	5
16 Home-Based Exercise Improves Fitness and Exercise Attitude and Intention in Women with GDM	2015	15	4
17 Exercise improves glycaemic control in women diagnosed with gestational diabetes mellitus: a systematic review	2016	9	4
18 Effect of physical activity during pregnancy on mode of delivery	2014	27	4
19 Role of exercise in reducing the risks of gestational diabetes mellitus in obese women	2016	0	4
20 Treatments for women with gestational diabetes mellitus: an overview of Cochrane systematic reviews	2018	1	4
21 The Role of Exercise in the Prevention and Treatment of Gestational Diabetes Mellitus	2008	22	4
22 Resistance exercise decreases the need for insulin in overweight women with gestational diabetes mellitus	2004	97	4
23 Role of Exercise in Reducing Gestational Diabetes Mellitus	2016	5	4
24 Exercise for pregnant women with gestational diabetes for improving maternal and fetal outcomes	2017	13	4
25 Exercise Recommendations in Women with Gestational Diabetes Mellitus	2010	3	4

Fig. 3f

The table in Fig. 3f shows the first 25 results of the citation search. Like the articles in the query set, all articles on the list are on exercise and gestational diabetes and most are of recent date.

The articles in the query set were published between 1997 and 2014, with one exception published in 1989. Thus, articles in the list that were published after 2014 are all *citing* the query articles, but article #12, published in 1989, must have been *cited by* 5 out of 10 query articles. The last article, published in 2010, was *citing* or *cited by* 4 query articles in total.

Supplementary Figure 3 Flowchart for inclusion of systematic reviews.



WOS = Web of Science

Supplementary Table 1 Examples of reviews in which CoCites showed poor performance—and a possible solution

Review	Number included articles	Number citing articles	Similarity index	Search 1: Co-citation ranking*	Search 2: Citation ranking**	Percentage retrieved articles	Solution: Citation Ranking Top 25	Percentage retrieved articles new
1	10	22	0.27	2	0	20%	1	30%
2	5	293	4.2***	1	0	20%	3	80%
3	17	260	0.26	3	0	27%	4	64%
4	7	49	0.36	2	0	28%	5	100%
5	12	141	0.32	3	1	33%	8	92%
6	14	73	0.31	5	0	36%	1	43%
7	8	58	0.55	3	0	38%	3	75%
8	16	1779	0.3	4	2	38%	5	56%
9	13	64	0.46	4	1	38%	3	54%
10	17	82	0.31	7	0	41%	5	71%
11	25	98	0.73	11	0	44%	8	76%
12	9	486	0.46	4	0	44%	3	78%

These twelve reviews had all included articles in PubMed, a similarity index higher than 0.2, and more than 20 citing articles (Table 3, first row). The percentage of retrieved articles refers to the results of both searches combined. The proposed solution applied citation ranking to the 25 top-ranked results of co-citation ranking (see Methods).

* Includes the two query articles.

** Includes only articles retrieved in addition to those found by co-citation ranking.

*** This is one of the two reviews for which the similarity index was out of bounds (>1). In this case, the query articles were cited 427 and 5 times. The total number of citations is then 432, but the number of unique citations was 399. The difference between these numbers indicates the overlap in citations but is here larger than the lowest number of citations. This is possible because we can only obtain unique citations to articles that are indexed in WOS, whereas the citation count includes non-indexed articles too.

Supplementary Table 2 Five examples of top-ranked results for the five reviews in which C performed worst.
Red numbers indicate query articles

Beyond the mean: A systematic review on the correlates of daily intraindividual variability of **sleep/wake patterns**

Bei et al. SLEEP MEDICINE REVIEWS. 2016.

Percentage of included articles retrieved: 9%

Title	Times Cited	Frequency
1 The sleep of remitted bipolar outpatients: a controlled naturalistic study using actigraphy	112	59
2 Daily activities and sleep quality in college students	107	58
3 Sleep -related functioning in euthymic patients with bipolar disorder, patients with insomnia, ...	196	39
4 Actigraphic assessment of circadian activity and sleep patterns in bipolar disorder	163	36
5 THE PITTSBURGH SLEEP QUALITY INDEX - A NEW INSTRUMENT FOR PSYCHIATRIC PRACTICE AND RESEARCH	8290	29
6 A systematic review of manic and depressive prodromes	198	24
7 Sleep and circadian rhythms in bipolar disorder: Seeking synchrony, harmony, and regulation	264	24
8 Temporal relation between sleep and mood in patients with bipolar disorder	106	19
9 Social zeitgebers and biological rhythms – a unified approach to understanding the etiology of depression	346	18
10 A self assessment questionnaire to determine morningness eveningness in human circadian rhythms	2302	17
11 Sleep schedules and daytime functioning in adolescents	867	16
12 Diagnostic and Statistical Manual of Mental Disorders: DSM-IV TR	42341	16
13 RATING-SCALE FOR MANIA - RELIABILITY, VALIDITY AND SENSITIVITY	4434	16
14 Rate of switch from depression into mania after therapeutic sleep deprivation in bipolar depression	164	16
15 Interpersonal and social rhythm therapy: Managing the chaos of bipolar disorder	301	15
16 SLEEP REDUCTION AS A FINAL COMMON PATHWAY IN THE GENESIS OF MANIA	255	15
17 Morning-evening preference: Sleep pattern spectrum and lifestyle habits among Japanese junior high school pupils	92	15
18 Circadian activity rhythm abnormalities in ill and recovered bipolar I disorder patients	85	15
19 THE SOCIAL RHYTHM METRIC - AN INSTRUMENT TO QUANTIFY THE DAILY RHYTHMS OF LIFE	159	13
20 Evaluation of 3 circadian-rhythm questionnaires with suggestions for an improved measure of morningness	521	13
21 The prospective impact of sleep duration on depression and mania	68	13
22 The relationship between lifestyle regularity and subjective sleep quality	55	12
23 Two-year outcomes for interpersonal and social rhythm therapy in individuals with bipolar I disorder	390	12
24 Recommendations for a standard research assessment of insomnia	487	12
25 Circadian preference, sleep and daytime behaviour in adolescence	357	12

Taxane acute pain syndrome (TAPS) in patients receiving **taxane-based chemotherapy** for **breast cancer**-a systematic review

Fernandes et al. SUPPORTIVE CARE IN CANCER. 2016.

Percentage of included articles retrieved: 10%

Title	Times Cited	Frequency
1 Phase III trial comparing ... with docetaxel plus cyclophosphamide as adjuvant therapy for operable breast cancer	279	228
2 Doxorubicin and paclitaxel versus ... as first-line therapy for women with metastatic breast cancer : ... trial	210	198
3 Adjuvant docetaxel for node-positive breast cancer	625	115
4 Effects of chemotherapy and hormonal therapy for early breast cancer on recurrence and 15-year survival: ... Improved outcomes from adding sequential paclitaxel but not from escalating doxorubicin dose in an adjuvant	3754	104
5 chemotherapy regimen for patients with node-positive primary breast cancer	736	101
6 Use of chemotherapy plus a monoclonal antibody against HER2 for metastatic breast cancer that overexpresses HER2.	6133	97
7 Docetaxel and ... as first-line chemotherapy for metastatic breast cancer : Results of a ... phase III trial	244	95
8 Doxorubicin and paclitaxel versus ... as first-line chemotherapy in metastatic breast cancer : The EORTCancer ... trial	152	94
9 Phase III trial of doxorubicin, paclitaxel , and the combination ... as ... chemotherapy for metastatic breast cancer : ...	400	91
10 Sequential adjuvant epirubicin-based and docetaxel chemotherapy for node-positive breast cancer patients: ...	364	89
11 Superior survival with capecitabine plus docetaxel combination therapy in ... advanced breast cancer : ...	723	86
12 Prospective randomized trial of docetaxel versus doxorubicin in patients with metastatic breast cancer	489	84
13 Randomized trial of ... chemotherapy as postoperative adjuvant treatment of node-positive primary breast cancer : ...	874	81
14 Trastuzumab plus adjuvant chemotherapy for operable HER2-positive breast cancer	3088	76
15 Paclitaxel after doxorubicin plus cyclophosphamide as adjuvant chemotherapy for node-positive breast cancer : ...	360	68
16 Trastuzumab after adjuvant chemotherapy in HER2-positive breast cancer	2785	66
17 Docetaxel With Cyclophosphamide Is Associated With an Overall Survival Benefit Compared With Doxorubicin and	260	64
18 Prospective randomized trial of docetaxel versus mitomycin plus vinblastine in patients with metastatic breast cancer ...	408	62
19 Paclitaxel versus doxorubicin as first-line single-agent chemotherapy for metastatic breast cancer : ...	245	59
20 Weekly paclitaxel in the adjuvant treatment of breast cancer	422	49
21 Cytotoxic and hormonal treatment for metastatic breast cancer : A systematic review of published randomized trials ...	360	48
22 Randomized phase III study of docetaxel compared with paclitaxel in metastatic breast cancer	305	47
23 Initial paclitaxel improves outcome compared with ... chemotherapy as front-line therapy in ... breast cancer	144	47
24 Paclitaxel by 3-hour infusion in combination with ... in women with untreated metastatic breast cancer ...	494	43
25 Paclitaxel plus bevacizumab versus paclitaxel alone for metastatic breast cancer	1890	41

Association between **maternal nutritional** status in **pregnancy** and **offspring cognitive function** during childhood and adolescence; a systematic review

Veena et al. BMC PREGNANCY AND CHILDBIRTH. 2016.

Percentage of included articles retrieved: 11%

Title	Times Cited	Frequency
1 Maternal vitamin D status during pregnancy and child outcomes	322	216
2 Maternal vitamin D intake during pregnancy and early childhood wheezing	356	107
3 Maternal intake of vitamin D during pregnancy and risk of recurrent wheeze in children at 3 y of age	391	105
4 Infant vitamin D supplementation and allergic conditions in adulthood - Northern Finland Birth Cohort 1966	224	90
5 Maternal vitamin D intake during pregnancy is inversely associated with asthma and ... in 5-year-old children	236	82
6 Vitamin D deficiency	5721	74
7 Neurodevelopmental effects of maternal nutritional status and ... methylmercury from ... fish during pregnancy	99	72
8 Cord-Blood 25-Hydroxyvitamin D Levels and Risk of Respiratory Infection, Wheezing, and Asthma	234	57
9 Dairy food, calcium and vitamin D intake in pregnancy , and wheeze and eczema in infants	146	53
10 Is vitamin D deficiency to blame for the asthma epidemic?	272	52
11 Serum Vitamin D Levels and Markers of Severity of Childhood Asthma in Costa Rica	317	50
12 Maternal vitamin D status during pregnancy and childhood bone mass at age 9 years: a longitudinal study	405	46
13 Reversing the defective induction of IL-10-secreting regulatory T cells in glucocorticoid-resistant asthma patients	353	40
14 Randomized trial of vitamin D supplementation to prevent seasonal influenza A in school children	351	38
15 Relationship between serum 25-hydroxyvitamin D and pulmonary function in the Third NHANES	322	37
16 Maternal 25-hydroxyvitamin D and parathyroid hormone concentrations and offspring birth size	172	37
17 Cognitive deficit in 7-year-old children with prenatal exposure to methylmercury	970	36
18 Toll-like receptor triggering of a vitamin D-mediated human antimicrobial response	1831	35
19 Serum 25-hydroxyvitamin D and IgE - a significant but nonlinear relationship	119	35
20 Maternal vitamin D deficiency increases the risk of preeclampsia	363	34
21 VITAMIN-D SUPPLEMENTS IN PREGNANT ASIAN WOMEN - EFFECTS ON CALCIUM STATUS AND FETAL GROWTH	236	33
22 Genes, factor X, and allergens: what causes allergic diseases?	80	32
23 Does Vitamin D Intake During Infancy Promote the Development of Atopic Allergy?	100	32
24 Vitamin D Supplementation During Pregnancy : Double-Blind, Randomized Clinical Trial of Safety and Effectiveness	292	31
25 Prenatal methylmercury exposure from ocean fish consumption in the Seychelles child development study	327	31

A Systematic Review of **Metastatic Hepatocellular Carcinoma** to the **Spine**

Goodwin et al. WORLD NEUROSURGERY. 2016.

Percentage of included articles retrieved: 12%

Title	Times Cited	Frequency
1 Advanced hepatocellular carcinoma with distant metastases , successfully treated by a combination therapy of ...	38	36
2 Percutaneous sacroplasty for hemorrhagic metastases from hepatocellular carcinoma	34	26
3 Combined ... therapy for advanced hepatocellular carcinoma with tumor thrombi in the major portal branches	164	24
4 Augmentation of ... is associated with up-regulation of p27(Kip1) in human hepatocellular carcinoma cells	75	15
5 Clinical pilot study of <therapy> for patients with locally advanced hepatocellular carcinoma	79	14
6 Treatment of hepatocellular carcinoma with <therapy>; role of type I interferon receptor expression	104	14
7 Percutaneous sacroplasty for the treatment of sacral insufficiency fractures	64	14
8 Sacroplasty by CT and fluoroscopic guidance: Is the procedure right for your patient?	35	13
9 Antineoplastic activity of the combination of <therapy> against experimental and human malignancies	355	13
10 Combination therapy ... for advanced hepatocellular carcinoma with portal venous invasion	151	13
11 Partial contribution of ... pathway to antitumor effects of <therapy> against hepatocellular carcinoma	61	12
12 Interferon alfa receptor expression and growth inhibition by interferon alfa in human liver cancer cell lines	116	12
13 Percutaneous sacroplasty : Long-axis injection technique	36	12
14 Percutaneous osteoplasty as a treatment for painful malignant bone lesions of the pelvis and femur	59	12
15 Sacroplasty : A treatment for sacral insufficiency fractures	80	12
16 Sacroplasty : A new treatment for sacral insufficiency fracture	88	11
17 Percutaneous sacroplasty for osteoporotic sacral insufficiency fractures : a ... pilot study	73	11
18 PMMA cementoplasty in symptomatic metastatic lesions of the S1 vertebral body	39	11
19 CT-guided sacroplasty in advanced sacral destruction secondary to tumour infiltration	15	11
20 Integration of interferon-alpha/beta signalling to p53 responses in tumour suppression and antiviral defence	542	11
21 <therapy> induces apoptosis through IFN-alpha/beta receptor in human hepatocellular carcinoma cells	57	11
22 TOXICITY AND RESPONSE CRITERIA OF THE EASTERN-COOPERATIVE-ONCOLOGY-GROUP	4743	11
23 Randomized controlled trial of interferon treatment for advanced hepatocellular carcinoma	175	10
24 A novel chemotherapy for advanced hepatocellular carcinoma with tumor thrombosis of the main trunk ...	123	10
25 Phase II trial of <therapy> for treatment of hepatocellular carcinoma	112	10

Impact of **lifestyle interventions** on **depressive symptoms** in individuals at-risk of, or with, type 2 **diabetes** mellitus: A systematic review and meta-analysis of randomized controlled trials

Cezaretto et al. NUTRITION METABOLISM AND CARDIOVASCULAR DISEASES. 2016.

Percentage of included articles retrieved: 13%

Title	Times Cited	Frequency
1 The pathways study - A randomized trial of collaborative care in patients with diabetes and depression Effectiveness of the diabetes education and self management for ongoing and newly diagnosed (DESMOND) programme	407	333
2 for people with newly diagnosed type 2 diabetes : cluster randomised controlled trial	283	183
3 The prevalence of comorbid depression in adults with diabetes - A meta-analysis	1767	113
4 Collaborative care management of late-life depression in the primary care setting - A randomized controlled trial	1242	98
5 Association of depression and diabetes complications: A meta-analysis	804	86
6 Cognitive behavior therapy for depression in type 2 diabetes mellitus - A randomized, controlled trial	325	82
7 The effectiveness of depression care management on diabetes -related outcomes in older patients	178	82
8 Depression and poor glycemic control - A meta-analytic review of the literature	849	77
9 Depression and diabetes - Impact of depression symptoms on adherence, function, costs	791	73
10 The PHQ-9 - Validity of a brief depression severity measure	6255	67
11 Fluoxetine for depression in diabetes - A randomized double-blind placebo-controlled trial	271	62
12 Effects of nortriptyline on depression and glycemic control in diabetes : Results of a ... trial	254	60
13 Collaborative Care for Patients with Depression and Chronic Illnesses.	589	53
14 The association of comorbid depression with mortality in patients with type 2 diabetes	317	50
15 Collaborative care for depression - A cumulative meta-analysis and review of longer-term outcomes	636	49
16 Relationship of depression and diabetes self-care , medication adherence, and preventive care	452	49
17 Depression predicts increased incidence of adverse health outcomes in older Mexican Americans with type 2 diabetes	287	47
18 Collaborative management to achieve treatment guidelines – impact on depression in primary care	1008	47
19 Cost-effectiveness of systematic depression treatment among people with diabetes mellitus	171	46
20 Comorbid depression is associated with increased health care use and expenditures in individuals with diabetes	376	45
21 Validation and utility of a self-report version of PRIME-MD - The PHQ primary care study	3470	42
22 Structured patient education : the Diabetes X-PERT Programme makes a difference	150	41
23 Effectiveness of self management training in type 2 diabetes - A systematic review of randomized controlled trials	955	39
24 The prevalence of co-morbid depression in adults with Type 2 diabetes : a systematic review and meta-analysis	466	37
25 Self-management education for adults with type 2 diabetes - A meta-analysis of the effect on glycemic control	739	36

Supplementary Table 3 Finding highly cited articles using a search that starts with infrequently cited articles

a. Number of reviews for which (second) highest-cited query articles were retrieved at ranking threshold

	Ranking threshold				All	Not found	Total
	Top 10	Top 25	Top 50	Top 100			
Highest-cited	43	50	53	59	59	1	60
Second highest-cited	22	33	38	41	54	6	60
Total	65	83	91	100	113	7	120

b. Number of included articles that were retrieved at ranking threshold*

	Ranking threshold				
	Top 10	Top 25	Top 50	Top 100	All
None	8	3	3	1	1
1-4	48	31	23	19	17
5-9	4	26	30	32	30
>=10	0	0	4	8	12
Total	60	60	60	60	60

This analysis was restricted to the reviews (n=60) that had all included articles in PubMed, a similarity index higher than 0.2, and more than 20 citing articles (Table 3, row 1) and had included 10 or more articles.

* The two highest-cited query articles are not considered.