

SUPPLEMENTARY MATERIAL

Supplementary Appendix 1. The search strategy that details the searching process of relevant clinical study selection

Queries

1. Population: patient who has thyroid cancer
2. Intervention and control: none
3. Outcome: osteoporosis
4. Study type: none

PubMed (September 26, 2018)

Queries	Search result
("thyroid neoplasms"[MeSH Terms] OR "Thyroidectomy"[MeSH Terms] OR ("thyroid"[All Fields] AND "neoplasms"[All Fields]) OR "thyroid neoplasms"[All Fields] OR ("thyroid"[All Fields] AND "cancer"[All Fields]) OR "thyroid cancer"[All Fields] OR "thyroidectomy"[All Fields]) AND ("osteoporosis, postmenopausal"[MeSH Terms] OR ("osteoporosis"[All Fields] AND "postmenopausal"[All Fields]) OR "postmenopausal osteoporosis"[All Fields] OR "osteoporosis"[All Fields] OR "osteoporosis"[MeSH Terms])	309

Search Details

Query Translation:

```
("thyroid neoplasms"[MeSH Terms] OR "Thyroidectomy"[Mesh] OR ("thyroid"[All Fields] AND "neoplasms"[All Fields]) OR "thyroid neoplasms"[All Fields] OR ("thyroid"[All Fields] AND "cancer"[All Fields]) OR "thyroid cancer"[All Fields] OR "thyroidectomy"[All Fields]) AND ("osteoporosis, postmenopausal"[MeSH Terms] OR ("osteoporosis"[All Fields] AND "postmenopausal"[All Fields]) OR "postmenopausal osteoporosis"[All Fields] OR "osteoporosis"[All Fields] OR "osteoporosis"[MeSH Terms])
```


Result:

309

Database:

PubMed

User query:

```
("thyroid neoplasms"[MeSH Terms] OR "Thyroidectomy"[Mesh] OR ("thyroid"[All Fields] AND "neoplasms"[All Fields]) OR "thyroid neoplasms"[All Fields] OR ("thyroid"[All Fields] AND "cancer"[All Fields]) OR "thyroid cancer"[All Fields] OR "thyroidectomy"[All Fields]) AND ("osteoporosis, postmenopausal"[MeSH Terms] OR ("osteoporosis"[All Fields] AND "postmenopausal"[All Fields]) OR "postmenopausal osteoporosis"[All Fields] OR "osteoporosis"[All Fields] OR "osteoporosis"[MeSH Terms])
```

EMBASE (September 26, 2018)

Queries	Search result
('thyroid cancer'/exp OR 'thyroid tumor'/exp OR 'thyroidectomy'/exp OR 'thyroid neoplasm' OR 'thyroid tumor' OR 'thyroidectomy' OR 'thyroidectomy') AND ('osteoporosis'/exp OR 'bone density'/exp OR 'bone density'/exp OR 'fragility fracture'/exp OR 'bone mineral density' OR 'osteoporotic fracture')	739

Results 언어 선택 ▼

{thyroid cancer/exp OR thyroid tumor/exp OR thyroidectomy/exp OR thyroid neoplasm/ OR thyroidectomy} AND {osteoporosis/exp OR bone density/exp OR fragility fracture/exp OR bone mineral density/ OR osteoporotic fracture}

Search > Mapping > Date > Sources > Fields > Quick limits > EBM > Pub. types > Languages > Gender > Age > Animal > Search tips >

Results Filters History Save | Delete | Print view | Export | Email Combine > using And Or Collapse

+ Expand - Collapse all Apply >

Sources > **739 results for search #1** Set email alert Set RSS feed Search details Index miner

Drugs >

Diseases >

Devices >

Floating Subheadings >

Age >

Gender >

#1 ('thyroid cancer'/exp OR 'thyroid tumor'/exp OR 'thyroidectomy'/exp OR 'thyroid neoplasm' OR 'thyroidectomy') AND ('osteoporosis'/exp OR 'bone density'/exp OR 'fragility fracture'/exp OR 'bone mineral density' OR 'osteoporotic fracture') 739

Results View | Print | Export | Email | Order | Add to Clipboard 1 - 25

Select number of items: Selected: 0 (clear) Show all abstracts | Sort by: Relevance Publication Year Entry Date

1 All 25-hydroxyvitamin D-deficient Indian postmenopausal women do not have secondary hyperparathyroidism
Dixit V., Tripathi R.L., Dhameal D.K.
Archives of Osteoporosis 2018 13:1 Article Number 62 Cited by: 0
Embase Abstract Index Terms View Full Text Similar records >

Cochrane Library (September 26, 2018)

	Queries	Search result
#1	MeSH descriptor: [Thyroid Neoplasms] explode all trees	547
#2	MeSH descriptor: [Thyroidectomy] explode all trees	512
#3	'thyroid cancer' or 'thyroid neoplasm' or 'thyroid tumor' or 'thyroidectomy'	2,386
#4	#1 OR #2 OR #3	2,474
#5	MeSH descriptor: [Osteoporosis] explode all trees	3,686
#6	MeSH descriptor: [Osteoporotic Fractures] explode all trees	236
#7	MeSH descriptor: [Bone Density] explode all trees	4,374
#8	'osteoporotic fracture' or 'osteoporosis' or 'bone mineral density'	11,813
#9	#5 OR #6 OR #7 OR #8	12,378
#10	#4 AND #9	60 ^{a)}

^{a)}24 reviews, 8 protocols, and 28 trials.

-	+	#1	MeSH descriptor: [Thyroid Neoplasms] explode all trees	MeSH ▼	547
-	+	#2	MeSH descriptor: [Thyroidectomy] explode all trees	MeSH ▼	512
-	+	#3	'thyroid cancer' or 'thyroid neoplasm' or 'thyroid tumor' or 'thyroidectomy'	▼	2386
-	+	#4	#1 OR #2 OR #3	▼	2474
-	+	#5	MeSH descriptor: [Osteoporosis] explode all trees	MeSH ▼	3686
-	+	#6	MeSH descriptor: [Osteoporotic Fractures] explode all trees	MeSH ▼	236
-	+	#7	MeSH descriptor: [Bone Density] explode all trees	MeSH ▼	4374
-	+	#8	'osteoporotic fracture' or 'osteoporosis' or 'bone mineral density'	▼	11813
-	+	#9	#5 OR #6 OR #7 OR #8	▼	12378
-	+	#10	#4 AND #9	▼	60

	Cochrane Reviews 24	Cochrane Protocols 8	Trials 28	Editorials 0	Special collections 0	Clinical Answers 0	Other Reviews
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28 Trials matching on ""#10 - #4 AND #9""

Cochrane Central Register of Controlled Trials
Issue 9 of 12, September 2018

Select all (28) Export selected citation(s)

Order by Relevancy Results per page 25

- Lack of deleterious effect on bone mineral density of long-term thyroxine suppressive therapy for differentiated thyroid carcinoma**
JL Reverter, S Holgado, N Alonso, I Salinas, ML Granada, A Sanmartí
 Endocrine-related cancer, **2005**, 12(4), 973-981 | added to CENTRAL: 31 July 2006 | 2006 Issue 3
[PubMed](#)
- Prevention of bone loss induced by thyroxine suppressive therapy in postmenopausal women: the effect of calcium and calcitonin**
AW Kung, SS Yeung
 Journal of clinical endocrinology and metabolism, **1996**, 81(3), 1232-1236 | added to CENTRAL: 31 January 1998 | 1998 Issue 1
[PubMed](#) | [Embase](#)
- Effect of postoperative thyrotropin suppressive therapy on bone mineral density in patients with papillary thyroid carcinoma: a prospective controlled study**
I Sugitani, Y Fujimoto
 Surgery, **2011**, 150(6), 1250-1257 | added to CENTRAL: 18 April 2012 | 2012 Issue 4
[PubMed](#)

Filter your results

Year ⓘ

Year first published

2018 1

2017 1

2016 2

2015 3

2014 1

Custom Range:

yyyy to yyyy

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Date ⓘ

Date added to CENTRAL trials database

The last 3 months 0

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The last year 6

The last 2 years 8