

**Supplemental Table S3.** Electronic Search Strategy

PICO	No.	Search terms	Result
Ovid-MEDLINE			
P	1	exp Thyroid Neoplasms/	59,321
	2	(thyroid adj6 (cancer or carcinom\$ or tumo?r\$ or neoplasm\$)).tw,kw	50,147
	3	or/1-2	68,140
I	4	exp ultrasonography/	478,064
	5	(ultrasonogra* or sonogra* or ultrasonic or ultrasound).tw,kw	388,960
	6	4 OR 5	636,093
	7	exp Early Detection of Cancer/ or (screen* or detect* or (early adj3 diagnos*)).tw,kw	2,976,395
P&I	8	6 AND 7	126,613
	9	3 AND 8	2,482
O	10	Neoplasm Metastasis/ or "Sensitivity and Specificity"/ or early diagnosis/	505,043
	11	(incidental* or overuse or death or metasta* or staging or early detect* or overdiagnosis or mortality or epidemiology or incidence or (quality adj2 life) or Sensitivity or Specificity or accuracy or reliability or agreement).tw	4,361,425
	12	10 OR 11	4,562,949
P&I&O	13	9 AND 12	1,776
Duration	14	limit 13 to yr="2012 -Current"	1,035
EMBASE			
P	1	'Thyroid tumor'/exp	103,084
	2	(Thyroid NEAR/6 (cancer or carcinom* or tumo?r* or neoplasm*)):ab,ti,kw	76,162
	3	#1 OR #2	112,610
I	4	'echography'/exp	972,553
	5	(ultrasonogra* or sonogra* or ultrasonic or ultrasound):ab,ti,kw	679,519
	6	#4 OR #5	1,281,834
	7	'early cancer diagnosis'/exp or (screen* or detect* or (early NEAR/3 diagnos*)):ab,ti,kw	4,529,513
P&I	8	#6 AND #7	253,108
	9	#3 AND #8	5,053
O	10	'metastasis'/exp or 'sensitivity and specificity'/exp or 'early diagnosis'/exp	1,294,196
	11	(incidental* or overuse or death or metasta* or staging or early detect* or overdiagnosis or mortality or epidemiology or incidence or (quality NEAR/2 life) or Sensitivity or Specificity or accuracy or reliability or agreement):ab,ti,kw	5,882,927
	12	#10 OR #11	6,602,660
P&I&O	13	#9 AND #12	3,663
Total	14	#13 AND ('article'/it OR 'article in press'/it OR 'review'/it OR 'short survey'/it)	2,651
Duration	15	climit #14 AND [2012-2022]/py	26

*(Continued to the next page)*

Supplemental Table S3. Continued

PICO	No.	Search terms	Result
Cochrane library			
P	1	[mh "Thyroid Neoplasms"]	705
	2	(Thyroid NEAR/6 (cancer or carcinom* or tumor* or neoplasm*)):ab,ti,kw	1,877
	3	#1 OR #2	1,990
I	4	[mh "Ultrasonography"]	14,888
	5	(ultrasonogra* or sonogra* or ultrasonic or ultrasound):ab,ti,kw	51,331
	6	#4 OR #5	55,800
	7	(screen* or detect* or (early NEAR/3 diagnos*)):ab,ti,kw	173,652
	8	#6 AND #7	8,564
P&I	9	#3 AND #8	37
O	10	[mh "Neoplasm Metastasis"] or [mh "sensitivity and specificity"] or [mh "Early Diagnosis"]	23,172
	11	(incidental* or overuse or death or metasta* or staging or early detect* or overdiagnosis or mortality or epidemiology or incidence or (quality NEAR/2 life) or Sensitivity or Specificity or accuracy or reliability or agreement):ab,ti,kw	524,587
	12	#10 OR #11	528,098
P&I&O	13	#8 AND #12	28
Duration	14	#13 with Publication Year from 2012 to 2022, in Trials	15

Search date: September 7, 2022.

PICO, participants, interventions, comparisons, outcomes.