

2022 ETA Guidelines for the Management of Pediatric Thyroid Nodules and Differentiated Thyroid Carcinoma

Appendix B. Pubmed searches

Search 1: clinical questions 1, 2

Date	Search strategy	# records
19-05-2020	Thyroid cancer AND children or young adolescents AND ultrasonography AND specificity/sensitivity Filter: Humans; English	478

1. Thyroid cancer

“Thyroid neoplasms”[mesh] OR “thyroid carcinoma”[tiab]OR “thyroid cancer”[tiab] OR “papillary thyroid carcinoma”[tiab] OR “follicular thyroid carcinoma”[tiab] OR “papillary thyroid cancer”[tiab] OR “PTC”[tiab] OR “DTC”[tiab] OR “follicular thyroid cancer”[tiab] OR “thyroid neoplasm”[tiab] OR “thyroid gland”[tiab] OR “thyroid adenoma”[tiab] OR “thyroid nodule”[tiab] NOT graves[tiab] NOT medullary[tiab]

2. Children or young adolescents

Infant[Mesh] OR infan*[tiab] OR "Infant, Newborn"[Mesh]OR newborn*[tiab] OR perinat*[tiab] OR neonat*[tiab] OR baby*[tiab] OR babies[tiab] OR toddler*[tiab] OR minor*[tiab] OR boys[tiab] OR boy[tiab] OR girl*[tiab] OR kids[tiab] OR “child”[Mesh] OR child*[tiab] OR schoolchild*[tiab] OR “school child”[tiab] OR Adolescent[Mesh] OR adolescen*[tiab] OR juvenil*[tiab] OR youth*[tiab] OR teen*[tiab] OR pubescen*[tiab] OR pediatrics[Mesh] OR pediatric*[tiab] OR peadiatric*[tiab] OR school*[tiab] OR prematur*[tiab] OR preterm*[tiab]

3. Ultrasonography

Ultrasonography[mesh] OR ultrasonography[tiab] OR ultrasound[tiab]

4. Specificity/sensitivity

“sensitivity and specificity”[mesh] OR specificity[tiab]

Search 2: clinical questions 3 and 4

Date	Search strategy	# records
19-05-2020	Thyroid cancer AND children or young adolescents AND genetic testing Filter: Humans; English	121

1. Thyroid cancer

“Thyroid neoplasms”[mesh] OR “thyroid carcinoma”[tiab]OR “thyroid cancer”[tiab] OR “papillary thyroid carcinoma”[tiab] OR “follicular thyroid carcinoma”[tiab] OR “papillary thyroid cancer”[tiab] OR “PTC”[tiab] OR “DTC”[tiab] OR “follicular thyroid cancer”[tiab] OR “thyroid neoplasm”[tiab] OR “thyroid gland”[tiab] OR “thyroid adenoma”[tiab] OR “thyroid nodule”[tiab] NOT graves[tiab] NOT medullary[tiab]

2. Children or young adolescents

Infant[Mesh] OR infan*[tiab] OR "Infant, Newborn"[Mesh]OR newborn*[tiab] OR perinat*[tiab] OR neonat*[tiab] OR baby*[tiab] OR babies[tiab] OR toddler*[tiab] OR minor*[tiab] OR boys[tiab] OR boy[tiab] OR girl*[tiab] OR kids[tiab] OR “child”[Mesh] OR child*[tiab] OR schoolchild*[tiab] OR “school child”[tiab] OR Adolescent[Mesh] OR adolescen*[tiab] OR juvenil*[tiab] OR youth*[tiab] OR teen*[tiab] OR pubescen*[tiab] OR pediatrics[Mesh] OR pediatric*[tiab] OR peadiatric*[tiab] OR school*[tiab] OR prematur*[tiab] OR preterm*[tiab]

3. Genetic testing

“genetic testing”[mesh] OR “genetic testing”[tiab] OR “genetic analysis”[tiab]

Search 3: clinical questions 5, 7, 20

Date	Search strategy	# records
19-05-2020	Thyroid cancer AND children or young adolescents AND imaging Filter: Humans; English, Clinical Study	174

1. Thyroid cancer

"Thyroid neoplasms"[mesh] OR "thyroid carcinoma"[tiab]OR "thyroid cancer"[tiab] OR "papillary thyroid carcinoma"[tiab] OR "follicular thyroid carcinoma"[tiab] OR "papillary thyroid cancer"[tiab] OR "PTC"[tiab] OR "DTC"[tiab] OR "follicular thyroid cancer"[tiab] OR "thyroid neoplasm"[tiab] OR "thyroid gland"[tiab] OR "thyroid adenoma"[tiab] OR "thyroid nodule"[tiab] NOT graves[tiab] NOT medullary[tiab]

2. Children or young adolescents

Infant[Mesh] OR infan*[tiab] OR "Infant, Newborn"[Mesh]OR newborn*[tiab] OR perinat*[tiab] OR neonat*[tiab] OR baby*[tiab] OR babies[tiab] OR toddler*[tiab] OR minor*[tiab] OR boys[tiab] OR boy[tiab] OR girl*[tiab] OR kids[tiab] OR "child"[Mesh] OR child*[tiab] OR schoolchild*[tiab] OR "school child**"[tiab] OR Adolescent[Mesh] OR adolescen*[tiab] OR juvenil*[tiab] OR youth*[tiab] OR teen*[tiab] OR pubescen*[tiab] OR pediatrics[Mesh] OR pediatric*[tiab] OR peadiatric*[tiab] OR school*[tiab] OR prematur*[tiab] OR preterm*[tiab]

3. Imaging

"Thyroid Neoplasms/diagnostic imaging"[Mesh] OR Ultrasonography[mesh] OR ultrasonography[tiab] OR ultrasound[tiab] OR "radionuclide imaging"[mesh] OR "diagnostic imaging"[sh] OR "magnetic resonance imaging"[mesh] OR "magnetic resonance imaging"[tiab] OR MRI[tiab] OR "single photon emission computed tomography computed tomography"[mesh] OR SPECT[tiab] OR CT[tiab] OR "positron emission tomography computed tomography"[mesh]

Search 4: clinical questions 6

Date	Search strategy	# records
19-05-2020	Thyroid cancer AND children or young adolescents AND histology Filter: Humans; English, Clinical Study	118

1. Thyroid cancer

"Thyroid neoplasms"[mesh] OR "thyroid carcinoma"[tiab]OR "thyroid cancer"[tiab] OR "papillary thyroid carcinoma"[tiab] OR "follicular thyroid carcinoma"[tiab] OR "papillary thyroid cancer"[tiab] OR "PTC"[tiab] OR "DTC"[tiab] OR "follicular thyroid cancer"[tiab] OR "thyroid neoplasm"[tiab] OR "thyroid gland"[tiab] OR "thyroid adenoma"[tiab] OR "thyroid nodule"[tiab] NOT graves[tiab] NOT medullary[tiab]

2. Children or young adolescents

Infant[Mesh] OR infan*[tiab] OR "Infant, Newborn"[Mesh]OR newborn*[tiab] OR perinat*[tiab] OR neonat*[tiab] OR baby*[tiab] OR babies[tiab] OR toddler*[tiab] OR minor*[tiab] OR boys[tiab] OR boy[tiab] OR girl*[tiab] OR kids[tiab] OR "child"[Mesh] OR child*[tiab] OR schoolchild*[tiab] OR "school child*[tiab] OR Adolescent[Mesh] OR adolescen*[tiab] OR juvenil*[tiab] OR youth*[tiab] OR teen*[tiab] OR pubescen*[tiab] OR pediatrics[Mesh] OR pediatric*[tiab] OR peadiatric*[tiab] OR school*[tiab] OR prematur*[tiab] OR preterm*[tiab]

3. Histology

"Thyroid Neoplasms/pathology"[Mesh] OR "histologic"[title] OR "Clinicopathologic*[title] OR "pathologic*[title] OR "pathology"[title] OR "histology"[title]

Search 5: clinical questions 8

Date	Search strategy	# records
19-05-2020	Thyroid cancer including medullary AND children or young adolescents AND calcitonin Filter: Humans; English	425

1. Thyroid cancer including medullary

“Thyroid neoplasms”[mesh] OR “thyroid carcinoma”[tiab]OR “thyroid cancer”[tiab] OR “papillary thyroid carcinoma”[tiab] OR “follicular thyroid carcinoma”[tiab] OR “papillary thyroid cancer”[tiab] OR “PTC”[tiab] OR “DTC”[tiab] OR “follicular thyroid cancer”[tiab] OR “thyroid neoplasm”[tiab] OR “thyroid gland”[tiab] OR “thyroid adenoma”[tiab] OR “thyroid nodule”[tiab] NOT graves[tiab]

2. Children or young adolescents

Infant[Mesh] OR infan*[tiab] OR "Infant, Newborn"[Mesh]OR newborn*[tiab] OR perinat*[tiab] OR neonat*[tiab] OR baby*[tiab] OR babies[tiab] OR toddler*[tiab] OR minor*[tiab] OR boys[tiab] OR boy[tiab] OR girl*[tiab] OR kids[tiab] OR “child”[Mesh] OR child*[tiab] OR schoolchild*[tiab] OR “school child”[tiab] OR Adolescent[Mesh] OR adolescen*[tiab] OR juvenil*[tiab] OR youth*[tiab] OR teen*[tiab] OR pubescen*[tiab] OR pediatrics[Mesh] OR pediatric*[tiab] OR peadiatric*[tiab] OR school*[tiab] OR prematur*[tiab] OR preterm*[tiab]

3. Calcitonin

“calcitonin”[mesh] OR “calcitonin”[title]

Search 6: clinical questions 9

Date	Search strategy	# records
19-05-2020	Thyroid cancer AND children or young adolescents AND incidental findings Filter: Humans; English	140

1. Thyroid cancer

“Thyroid neoplasms”[mesh] OR “thyroid carcinoma”[tiab]OR “thyroid cancer”[tiab] OR “papillary thyroid carcinoma”[tiab] OR “follicular thyroid carcinoma”[tiab] OR “papillary thyroid cancer”[tiab] OR “PTC”[tiab] OR “DTC”[tiab] OR “follicular thyroid cancer”[tiab] OR “thyroid neoplasm”[tiab] OR “thyroid gland”[tiab] OR “thyroid adenoma”[tiab] OR “thyroid nodule”[tiab] NOT graves[tiab] NOT medullary[tiab]

2. Children or young adolescents

Infant[Mesh] OR infan*[tiab] OR "Infant, Newborn"[Mesh]OR newborn*[tiab] OR perinat*[tiab] OR neonat*[tiab] OR baby*[tiab] OR babies[tiab] OR toddler*[tiab] OR minor*[tiab] OR boys[tiab] OR boy[tiab] OR girl*[tiab] OR kids[tiab] OR “child”[Mesh] OR child*[tiab] OR schoolchild*[tiab] OR “school child”[tiab] OR Adolescent[Mesh] OR adolescen*[tiab] OR juvenil*[tiab] OR youth*[tiab] OR teen*[tiab] OR pubescen*[tiab] OR pediatrics[Mesh] OR pediatric*[tiab] OR peadiatric*[tiab] OR school*[tiab] OR prematur*[tiab] OR preterm*[tiab]

3. Incidental findings

“Incidental findings”[mesh] OR “incidental”[tiab]

Search 7: clinical questions 10, 11, 12

Date	Search strategy	# records
08-06-2020	Thyroid cancer AND children or young adolescents AND surgery Filter: Humans; English, from April 2014-2020, Exclusion of 'Trauma'	696

1. Thyroid cancer

"Thyroid neoplasms"[mesh] OR "thyroid carcinoma"[tiab]OR "thyroid cancer"[tiab] OR "papillary thyroid carcinoma"[tiab] OR "follicular thyroid carcinoma"[tiab] OR "papillary thyroid cancer"[tiab] OR "PTC"[tiab] OR "DTC"[tiab] OR "follicular thyroid cancer"[tiab] OR "thyroid neoplasm"[tiab] OR "thyroid gland"[tiab] OR "thyroid adenoma"[tiab] OR "thyroid nodule"[tiab] NOT graves[tiab] NOT medullary[tiab]

2. Children or young adolescents

Infant[Mesh] OR infan*[tiab] OR "Infant, Newborn"[Mesh]OR newborn*[tiab] OR perinat*[tiab] OR neonat*[tiab] OR baby*[tiab] OR babies[tiab] OR toddler*[tiab] OR minor*[tiab] OR boys[tiab] OR boy[tiab] OR girl*[tiab] OR kids[tiab] OR "child"[Mesh] OR child*[tiab] OR schoolchild*[tiab] OR "school child*[tiab] OR Adolescent[Mesh] OR adolescen*[tiab] OR juvenil*[tiab] OR youth*[tiab] OR teen*[tiab] OR pubescen*[tiab] OR pediatrics[Mesh] OR pediatric*[tiab] OR peadiatric*[tiab] OR school*[tiab] OR prematur*[tiab] OR preterm*[tiab]

3. Surgery

"Thyroid Neoplasms/surgery"[Mesh] OR "Thyroidectomy"[Mesh] OR "thyroidectomy"[title] OR "surgery"[title] OR "surgical"[title] OR "dissection"[title]

Exclusion of 'trauma'

'trauma': "injuries"[Subheading] OR "injuries"[All Fields] OR "trauma"[All Fields] OR "wounds and injuries"[MeSH Terms] OR ("wounds"[All Fields] AND "injuries"[All Fields]) OR "wounds and injuries"[All Fields] OR "trauma's"[All Fields] OR "traumas"[All Fields]

Search 8: clinical questions 13,14

Date	Search strategy	# records
20-05-2020	Thyroid cancer AND children or young adolescents AND radioiodine Filter: Humans; English from April 2014-2020	243

1. Thyroid cancer

"Thyroid neoplasms"[mesh] OR "thyroid carcinoma"[tiab]OR "thyroid cancer"[tiab] OR "papillary thyroid carcinoma"[tiab] OR "follicular thyroid carcinoma"[tiab] OR "papillary thyroid cancer"[tiab] OR "PTC"[tiab] OR "DTC"[tiab] OR "follicular thyroid cancer"[tiab] OR "thyroid neoplasm"[tiab] OR "thyroid gland"[tiab] OR "thyroid adenoma"[tiab] OR "thyroid nodule"[tiab] NOT graves[tiab] NOT medullary[tiab]

2. Children or young adolescents

Infant[Mesh] OR infan*[tiab] OR "Infant, Newborn"[Mesh]OR newborn*[tiab] OR perinat*[tiab] OR neonat*[tiab] OR baby*[tiab] OR babies[tiab] OR toddler*[tiab] OR minor*[tiab] OR boys[tiab] OR boy[tiab] OR girl*[tiab] OR kids[tiab] OR "child"[Mesh] OR child*[tiab] OR schoolchild*[tiab] OR "school child*[tiab] OR Adolescent[Mesh] OR adolescen*[tiab] OR juvenil*[tiab] OR youth*[tiab] OR teen*[tiab] OR pubescen*[tiab] OR pediatrics[Mesh] OR pediatric*[tiab] OR peadiatric*[tiab] OR school*[tiab] OR prematur*[tiab] OR preterm*[tiab]

3. Radioiodine

"Iodine Radioisotopes/administration and dosage"[Mesh] OR "Iodine Radioisotopes/therapeutic use"[Mesh] OR "thyroid neoplasms/radiotherapy"[mesh] OR "radioactive iodine"[title] OR "I-131"[title]

Search 9: clinical questions 15

Date	Search strategy	# records
20-05-2020	Thyroid cancer AND children or young adolescents AND rhTSH	39

1. Thyroid cancer

“Thyroid neoplasms”[mesh] OR “thyroid carcinoma”[tiab]OR “thyroid cancer”[tiab] OR “papillary thyroid carcinoma”[tiab] OR “follicular thyroid carcinoma”[tiab] OR “papillary thyroid cancer”[tiab] OR “PTC”[tiab] OR “DTC”[tiab] OR “follicular thyroid cancer”[tiab] OR “thyroid neoplasm”[tiab] OR “thyroid gland”[tiab] OR “thyroid adenoma”[tiab] OR “thyroid nodule”[tiab] NOT graves[tiab] NOT medullary[tiab]

2. Children or young adolescents

Infant[Mesh] OR infan*[tiab] OR "Infant, Newborn"[Mesh]OR newborn*[tiab] OR perinat*[tiab] OR neonat*[tiab] OR baby*[tiab] OR babies[tiab] OR toddler*[tiab] OR minor*[tiab] OR boys[tiab] OR boy[tiab] OR girl*[tiab] OR kids[tiab] OR “child”[Mesh] OR child*[tiab] OR schoolchild*[tiab] OR “school child”[tiab] OR Adolescent[Mesh] OR adolescen*[tiab] OR juvenil*[tiab] OR youth*[tiab] OR teen*[tiab] OR pubescen*[tiab] OR pediatrics[Mesh] OR pediatric*[tiab] OR peadiatric*[tiab] OR school*[tiab] OR prematur*[tiab] OR preterm*[tiab]

3. Recombinant TSH

"Thyrotropin Alfa"[Mesh] OR “recombinant human TSH”[title] OR rhTSH[title] OR thyrogen[title]

Search 10: clinical questions 16

Date	Search strategy	# records
20-05-2020	Thyroid cancer AND children or young adolescents AND persistent disease Filter: Humans; English	82

1. Thyroid cancer

“Thyroid neoplasms”[mesh] OR “thyroid carcinoma”[tiab]OR “thyroid cancer”[tiab] OR “papillary thyroid carcinoma”[tiab] OR “follicular thyroid carcinoma”[tiab] OR “papillary thyroid cancer”[tiab] OR “PTC”[tiab] OR “DTC”[tiab] OR “follicular thyroid cancer”[tiab] OR “thyroid neoplasm”[tiab] OR “thyroid gland”[tiab] OR “thyroid adenoma”[tiab] OR “thyroid nodule”[tiab] NOT graves[tiab] NOT medullary[tiab]

2. Children or young adolescents

Infant[Mesh] OR infan*[tiab] OR "Infant, Newborn"[Mesh]OR newborn*[tiab] OR perinat*[tiab] OR neonat*[tiab] OR baby*[tiab] OR babies[tiab] OR toddler*[tiab] OR minor*[tiab] OR boys[tiab] OR boy[tiab] OR girl*[tiab] OR kids[tiab] OR “child”[Mesh] OR child*[tiab] OR schoolchild*[tiab] OR “school child”[tiab] OR Adolescent[Mesh] OR adolescen*[tiab] OR juvenil*[tiab] OR youth*[tiab] OR teen*[tiab] OR pubescen*[tiab] OR pediatrics[Mesh] OR pediatric*[tiab] OR peadiatric*[tiab] OR school*[tiab] OR prematur*[tiab] OR preterm*[tiab]

3. Persistent disease

“persistent disease”[title]

Search 11: clinical questions 17

Date	Search strategy	# records
20-05-2020	Thyroid cancer AND children or young adolescents AND recurrent/progressive disease Filter: Humans; English from April 2014-2020	287

1. Thyroid cancer

"Thyroid neoplasms"[mesh] OR "thyroid carcinoma"[tiab]OR "thyroid cancer"[tiab] OR "papillary thyroid carcinoma"[tiab] OR "follicular thyroid carcinoma"[tiab] OR "papillary thyroid cancer"[tiab] OR "PTC"[tiab] OR "DTC"[tiab] OR "follicular thyroid cancer"[tiab] OR "thyroid neoplasm"[tiab] OR "thyroid gland"[tiab] OR "thyroid adenoma"[tiab] OR "thyroid nodule"[tiab] NOT graves[tiab] NOT medullary[tiab]

2. Children or young adolescents

Infant[Mesh] OR infan*[tiab] OR "Infant, Newborn"[Mesh]OR newborn*[tiab] OR perinat*[tiab] OR neonat*[tiab] OR baby*[tiab] OR babies[tiab] OR toddler*[tiab] OR minor*[tiab] OR boys[tiab] OR boy[tiab] OR girl*[tiab] OR kids[tiab] OR "child"[Mesh] OR child*[tiab] OR schoolchild*[tiab] OR "school child*[tiab] OR Adolescent[Mesh] OR adolescen*[tiab] OR juvenil*[tiab] OR youth*[tiab] OR teen*[tiab] OR pubescen*[tiab] OR pediatrics[Mesh] OR pediatric*[tiab] OR peadiatric*[tiab] OR school*[tiab] OR prematur*[tiab] OR preterm*[tiab]

3. Recurrent/progressive disease

"Neoplasm Recurrence, Local"[Mesh] OR "recurrence"[Mesh] OR "Disease Progression"[Mesh] OR "progressive"[title] OR "recurrence"[title]

Search 12: clinical questions 18

Date	Search strategy	# records
20-05-2020	Thyroid cancer AND children or young adolescents AND alternative treatment Filter: Humans; English	182

1. Thyroid cancer

“Thyroid neoplasms”[mesh] OR “thyroid carcinoma”[tiab]OR “thyroid cancer”[tiab] OR “papillary thyroid carcinoma”[tiab] OR “follicular thyroid carcinoma”[tiab] OR “papillary thyroid cancer”[tiab] OR “PTC”[tiab] OR “DTC”[tiab] OR “follicular thyroid cancer”[tiab] OR “thyroid neoplasm”[tiab] OR “thyroid gland”[tiab] OR “thyroid adenoma”[tiab] OR “thyroid nodule”[tiab] NOT graves[tiab] NOT medullary[tiab]

2. Children or young adolescents

Infant[Mesh] OR infan*[tiab] OR "Infant, Newborn"[Mesh]OR newborn*[tiab] OR perinat*[tiab] OR neonat*[tiab] OR baby*[tiab] OR babies[tiab] OR toddler*[tiab] OR minor*[tiab] OR boys[tiab] OR boy[tiab] OR girl*[tiab] OR kids[tiab] OR “child”[Mesh] OR child*[tiab] OR schoolchild*[tiab] OR “school child”[tiab] OR Adolescent[Mesh] OR adolescen*[tiab] OR juvenil*[tiab] OR youth*[tiab] OR teen*[tiab] OR pubescen*[tiab] OR pediatrics[Mesh] OR pediatric*[tiab] OR peadiatric*[tiab] OR school*[tiab] OR prematur*[tiab] OR preterm*[tiab]

3. Alternative treatment

“thyroid neoplasms/drug therapy”[Mesh] OR “external beam”[title]

Search 16: clinical questions 19

Date	Search strategy	# records
19-06-2020	Thyroid cancer AND children or young adolescents AND ultrasonography AND specificity/sensitivity AND 'recurrent' Filter: Humans; English	61

1. Thyroid cancer

"Thyroid neoplasms"[mesh] OR "thyroid carcinoma"[tiab]OR "thyroid cancer"[tiab] OR "papillary thyroid carcinoma"[tiab] OR "follicular thyroid carcinoma"[tiab] OR "papillary thyroid cancer"[tiab] OR "PTC"[tiab] OR "DTC"[tiab] OR "follicular thyroid cancer"[tiab] OR "thyroid neoplasm"[tiab] OR "thyroid gland"[tiab] OR "thyroid adenoma"[tiab] OR "thyroid nodule"[tiab] NOT graves[tiab] NOT medullary[tiab]

2. Children or young adolescents

Infant[Mesh] OR infan*[tiab] OR "Infant, Newborn"[Mesh]OR newborn*[tiab] OR perinat*[tiab] OR neonat*[tiab] OR baby*[tiab] OR babies[tiab] OR toddler*[tiab] OR minor*[tiab] OR boys[tiab] OR boy[tiab] OR girl*[tiab] OR kids[tiab] OR "child"[Mesh] OR child*[tiab] OR schoolchild*[tiab] OR "school child*[tiab] OR Adolescent[Mesh] OR adolescen*[tiab] OR juvenil*[tiab] OR youth*[tiab] OR teen*[tiab] OR pubescen*[tiab] OR pediatrics[Mesh] OR pediatric*[tiab] OR peadiatric*[tiab] OR school*[tiab] OR prematur*[tiab] OR preterm*[tiab]

3. Ultrasonography

Ultrasonography[mesh] OR ultrasonography[tiab] OR ultrasound[tiab]

4. Specificity/sensitivity

"sensitivity and specificity"[mesh] OR specificity[tiab]

5. Recurrence

'Recurrence' OR 'recurrent'

Search 13: clinical questions 21

Date	Search strategy	# records
20-05-2020	Thyroid cancer AND children or young adolescents AND early and late effects Filter: English, from April 2014-2020	76

1. Thyroid cancer

“Thyroid neoplasms”[mesh] OR “thyroid carcinoma”[tiab]OR “thyroid cancer”[tiab] OR “papillary thyroid carcinoma”[tiab] OR “follicular thyroid carcinoma”[tiab] OR “papillary thyroid cancer”[tiab] OR “PTC”[tiab] OR “DTC”[tiab] OR “follicular thyroid cancer”[tiab] OR “thyroid neoplasm”[tiab] OR “thyroid gland”[tiab] OR “thyroid adenoma”[tiab] OR “thyroid nodule”[tiab] NOT graves[tiab] NOT medullary[tiab]

2. Children or young adolescents

Infant[Mesh] OR infan*[tiab] OR "Infant, Newborn"[Mesh]OR newborn*[tiab] OR perinat*[tiab] OR neonat*[tiab] OR baby*[tiab] OR babies[tiab] OR toddler*[tiab] OR minor*[tiab] OR boys[tiab] OR boy[tiab] OR girl*[tiab] OR kids[tiab] OR “child”[Mesh] OR child*[tiab] OR schoolchild*[tiab] OR “school child”[tiab] OR Adolescent[Mesh] OR adolescen*[tiab] OR juvenil*[tiab] OR youth*[tiab] OR teen*[tiab] OR pubescen*[tiab] OR pediatrics[Mesh] OR pediatric*[tiab] OR peadiatric*[tiab] OR school*[tiab] OR prematur*[tiab] OR preterm*[tiab]

3. Early and late adverse effects

“iodine radioisotopes/adverse effects”[mesh] OR “bone marrow/radiation effects”[mesh] OR “fertility/radiation effects”[mesh] OR “salivary glands/radiation effects”[mesh] OR “salivary gland”[title] OR “fertility”[title] OR “quality of life/psychology”[mesh] OR “psychosocial”[title] OR “cardiovascular”[title] OR bone[title] OR “adverse effect”[title]

Search 14: clinical questions 22

Date	Search strategy	# records
20-05-2020	A.Thyroid cancer AND children AND Genetic syndromes Filter: English, Humans, from April 2014-2020	89

1. Thyroid cancer

“Thyroid neoplasms”[mesh] OR “thyroid carcinoma”[tiab]OR “thyroid cancer”[tiab] OR “papillary thyroid carcinoma”[tiab] OR “follicular thyroid carcinoma”[tiab] OR “papillary thyroid cancer”[tiab] OR “PTC”[tiab] OR “DTC”[tiab] OR “follicular thyroid cancer”[tiab] OR “thyroid neoplasm”[tiab] OR “thyroid gland”[tiab] OR “thyroid adenoma”[tiab] OR “thyroid nodule”[tiab] NOT graves[tiab] NOT medullary[tiab]

2. Children or young adolescents

Infant[Mesh] OR infan*[tiab] OR "Infant, Newborn"[Mesh]OR newborn*[tiab] OR perinat*[tiab] OR neonat*[tiab] OR baby*[tiab] OR babies[tiab] OR toddler*[tiab] OR minor*[tiab] OR boys[tiab] OR boy[tiab] OR girl*[tiab] OR kids[tiab] OR “child”[Mesh] OR child*[tiab] OR schoolchild*[tiab] OR “school child”[tiab] OR Adolescent[Mesh] OR adolescen*[tiab] OR juvenil*[tiab] OR youth*[tiab] OR teen*[tiab] OR pubescen*[tiab] OR pediatrics[Mesh] OR pediatric*[tiab] OR peadiatric*[tiab] OR school*[tiab] OR prematur*[tiab] OR preterm*[tiab]

3. Genetic syndromes

“DICER1”[tiab] OR “cowden”[tiab] OR FAP[Title] OR “familial adenomatous polyposis”[Title] OR Lynch syndrome[Tiab] OR “carney complex”[tiab] OR “genetic predisposition to disease”[mesh] OR “neoplastic syndromes, hereditary/genetics”[mesh]

Search 15: clinical questions 23

Date	Search strategy	# records
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20-05-2020	B.Thyroid cancer AND children AND radiation exposure Filter: English, Humans, from April 2014-2020	39
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1. Thyroid cancer

"Thyroid neoplasms"[mesh] OR "thyroid carcinoma"[tiab]OR "thyroid cancer"[tiab] OR "papillary thyroid carcinoma"[tiab] OR "follicular thyroid carcinoma"[tiab] OR "papillary thyroid cancer"[tiab] OR "PTC"[tiab] OR "DTC"[tiab] OR "follicular thyroid cancer"[tiab] OR "thyroid neoplasm"[tiab] OR "thyroid gland"[tiab] OR "thyroid adenoma"[tiab] OR "thyroid nodule"[tiab] NOT graves[tiab] NOT medullary[tiab]

2. Children or young adolescents

Infant[Mesh] OR infan*[tiab] OR "Infant, Newborn"[Mesh]OR newborn*[tiab] OR perinat*[tiab] OR neonat*[tiab] OR baby*[tiab] OR babies[tiab] OR toddler*[tiab] OR minor*[tiab] OR boys[tiab] OR boy[tiab] OR girl*[tiab] OR kids[tiab] OR "child"[Mesh] OR child*[tiab] OR schoolchild*[tiab] OR "school child*[tiab] OR Adolescent[Mesh] OR adolescen*[tiab] OR juvenil*[tiab] OR youth*[tiab] OR teen*[tiab] OR pubescen*[tiab] OR pediatrics[Mesh] OR pediatric*[tiab] OR peadiatric*[tiab] OR school*[tiab] OR prematur*[tiab] OR preterm*[tiab]

3. Radiation exposure

"Neoplasms, Radiation-Induced/etiology"[mesh]