

APPENDIX: Medical codes used for data search**Table 1:** Read codes for diagnosis of hyperthyroidism

Read code	Description
C02..00	Thyrotoxicosis
C02..11	Hyperthyroidism
C02..12	Toxic goitre
C020.00	Toxic diffuse goitre
C020.11	Basedow's disease
C020.12	Graves' disease
C020000	Toxic diffuse goitre with no crisis
C020100	Toxic diffuse goitre with crisis
C020200	Thyroid-associated dermatopathy
C020z00	Toxic diffuse goitre NOS
C021.00	Toxic uninodular goitre
C021000	Toxic uninodular goitre with no crisis
C021100	Toxic uninodular goitre with crisis
C021z00	Toxic uninodular goitre NOS
C022.00	Toxic multinodular goitre
C022000	Toxic multinodular goitre with no crisis
C022100	Toxic multinodular goitre with crisis
C022z00	Toxic multinodular goitre NOS
C023.00	Toxic nodular goitre unspecified
C023000	Toxic nodular goitre unspecified with no crisis
C023100	Toxic nodular goitre unspecified with crisis
C023z00	Toxic nodular goitre NOS
C024.00	Thyrotoxicosis from ectopic thyroid nodule
C024000	Thyrotoxicosis from ectopic thyroid nodule with no crisis
C024100	Thyrotoxicosis from ectopic thyroid nodule with crisis
C024z00	Thyrotoxicosis from ectopic thyroid nodule NOS
C02y.00	Thyrotoxicosis of other specified origin
C02y.11	Factitia thyrotoxicosis
C02y000	Thyrotoxicosis of other specified origin with no crisis
C02y100	Thyrotoxicosis of other specified origin with crisis
C02y200	Thyrotoxicosis factitia
C02y300	Thyroid crisis
C02yz00	Thyrotoxicosis of other specified origin NOS
C02z.00	Thyrotoxicosis without mention of goitre or other cause
C02z000	Thyrotoxicosis without mention of goitre or cause no crisis
C02z100	Thyrotoxicosis without mention of goitre, cause with crisis
C02zz00	Thyrotoxicosis NOS

Table 2: Codes for the treatment group allocation

Treatment group allocation	Coding system		
	Read	BNF	OPCS-4
Medication:			
Carbimazole		06.02.02.00	
Propylthiouracil		06.02.02.00	
Radioiodine:			
Radioactive drug therapy	5A16.00		X65.5
I131 radiotherapy	5A16.11		
Iodine 131 radiotherapy	5A16.12		
Thyroidectomy:			
Thyroid gland operations	711..12		B12.8
Thyroidectomy operations	7110.00		
Excision of thyroid gland operations	7110.11		
Total thyroidectomy	7110000		B08.1
Subtotal thyroidectomy	7110100		B08.2
Bilateral subtotal thyroidectomy	7110111		B08.2
Hemithyroidectomy	7110200		B08.3
Lobectomy of thyroid gland NEC	7110300		B08.4
Isthmectomy of thyroid gland	7110400		B08.5
Partial thyroidectomy NEC	7110500		B08.6
Thyroidectomy NEC	7110600		B08.6
Other specified thyroidectomy	7110y00		B08.8
Thyroidectomy NOS	7110z00		B08.9

Table 3: Outcomes codes

Outcome	Coding system	
	ICD-10	Read codes
obesity		22K5.00, 66C..00, 66CZ.00, C38..00, C380.00, C380.00, C380000, C380100, C380200, C380300, C380400, C380500, C38y011, C38z.00, C38z000
nonfatal myocardial infarction (composite of MACE)	I21-I22	n/a
nonfatal stroke (composite of MACE)	I64	n/a
congestive heart failure	I50	n/a
ischaemic heart disease	I20-I25	n/a
stroke and transient ischaemic attack (TIA)	I60-I69	n/a
type 2 diabetes mellitus	E11	C109*

MACE: major adverse cardiovascular event; TIA: transient ischemic attack