

This dataset is created based on Gen 2/Omni 1 FHS participants' **self-reported** information from Exam 1 to Exam 9.

The following is the timeline for related questions found in individual FHS core exams (N = No, Y = Yes):

FHS Core Exam	1	2	3	4	5	6	7	8	9
Thyroid	Y	Y	Y	Y	Y	Y	Y	Y	Y

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## ID

### IDTYPE

**Variable name:** idtype

**Description:** Framingham Heart Study cohort identifier

Code or Value	Description
2	New Offspring Spouse Cohort
3	Generation 3 Cohort
72	Omni 2 Cohort

### ID

**Variable name:** id

**Description:** Framingham Heart Study participant identifier within cohort

**IDTYPE and ID must be used together to form a unique study participant identification number or use variable “framid” instead**

Code or Value	Description
0 – 9999	Range of values

**Note:** To preserve confidentiality, the exact range for the ID is not reflected in the coding manual.

### FRAMID

**Variable name:** Framid

**Description:** Framingham ID assigned to each participant

Code or Value	Description
80000 – 89999	Gen 2
700000 – 709999	Omni 1

**Note:** To preserve confidentiality, the exact range for the ID is not reflected in the coding manual.

### THYROID\_CORE1

**Variable name:** thyroid\_core1

**Description:** Thyroid disease present, exam 1

Code or Value	Description
0	No
1	Yes
.	Unknown

**Note:** This variable was derived from A67, A81 and A82 in core exam 1.

A67 History of Hypothyroid disease

2 no

3 yes

. unknown

A81 Thyroid

3 no

4 yes (now)

5 yes (not now)

. unknown

A82 Anti-Thyroid

6 no

7 yes (now)

. unknown

Refer to R code for more information.

### THYROID\_CORE2

**Variable name:** thyroid\_core2

**Description:** Thyroid disease present, exam 2

Code or Value	Description
0	No
1	Yes
.	Unknown

**Note:** This variable was derived from B62 in core exam 2.

B195 THYROID: OTHER THYROID DISEASE

0 NO

## Thyroid Disease Variables

- 1 YES
- 2 MAYBE
- . UNKNOWN

Refer to R code for more information.

### THYROID\_CORE4

**Variable name:** thyroid\_core4

**Description:** Thyroid disease present, exam 4

Code or Value	Description
0	No
1	Yes
.	Unknown

**Note:** This variable was derived from D092 in core exam 4.

D092                      HAVE YOU EVER HAD OTHER THYROID DISEASE  
0 NO  
1 YES  
. UNKNOWN

Refer to R code for more information.

### THYROID\_CORE5

**Variable name:** thyroid\_core5

**Description:** Thyroid disease present, exam 5

Code or Value	Description
0	No
1	Yes
.	Unknown

**Note:** This variable was derived from E297 in core exam 5.

E297                      DIAGNOSED WITH THYROID CONDITION IN INTERIM  
0 NO  
1 YES  
. UNKNOWN

Refer to R code for more information.

### THYROID\_CORE6

**Variable name:** thyroid\_core6

## Thyroid Disease Variables

**Description:** Thyroid disease present, exam 6

Code or Value	Description
0	No
1	Yes
.	Unknown

**Note:** This variable was derived from F263 in core exam 6.

F263 INTERIM DIAGNOSIS OF THYROID CONDITION

0 NO

1 YES

. UNKNOWN

Refer to R code for more information.

### THYROID\_CORE7

**Variable name:** thyroid\_core7

**Description:** Thyroid disease present, exam 7

Code or Value	Description
0	No
1	Yes
.	Unknown

**Note:** This variable was derived from G099 in core exam 7.

G099 INTERIM DIAGNOSIS OF A THYROID CONDITION

0 NO

1 YES

. UNKNOWN

Refer to R code for more information.

### THYROID\_CORE8

**Variable name:** thyroid\_core8

**Description:** Thyroid disease present, exam 8

Code or Value	Description
0	No
1	Yes

## Thyroid Disease Variables

.	Unknown
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**Note:** This variable was derived from H351 in core exam 8.

H351 Clinical Diagnostic Impression – Part II

Non Cardiovascular Disease First Examiner Opinions - Endocrine:

Thyroid disease

0 = no

1 = yes

2 = maybe

. = unknown

Refer to R code for more information.

### THYROID\_CORE9

**Variable name:** thyroid\_core9

**Description:** Thyroid disease present, exam 9

Code or Value	Description
0	No
1	Yes
.	Unknown

**Note:** This variable was derived from J410 in core exam 9.

Clinical Diagnostic Impression: Endocrine: Thyroid disease

0 No

1 Yes

2 Maybe

. Unknown

Note: Clinical Diagnostic Impression ONLY. Not hard data. Use with caution. Not verified.

Refer to R code for more information.

### THYROID\_MED\_CORE1

**Variable name:** thyroid\_med\_core1

**Description:** Interim history of thyroid medication use in exam 1

Code or Value	Description
0	No thyroid medication usage
1	Thyroid medication usage
.	Did not attend exam/Unknown

**Note:** This variable was derived from A81 and A82 in core exam 1.

A81      Thyroid  
             3 no  
             4 yes (now)  
             5 yes (not now)  
             . unknown

A82      Anti-Thyroid  
             6 no  
             7 yes (now)  
             . unknown

Refer to R code for more information.

### THYROID\_MED\_CORE2

**Variable name:** thyroid\_med\_core2

**Description:** Interim history of thyroid medication use in exam 2

Code or Value	Description
0	No thyroid medication usage
1	Thyroid medication usage
.	Did not attend exam/Unknown

**Note:** This variable was derived from B62 in core exam 2.

B62      D202/17    THYROID  
             0 NO  
             1 YES (NOW)  
             2 YES (NOT NOW)

Refer to R code for more information.



### THYROID\_MED\_CORE3

**Variable name:** thyroid\_med\_core3

**Description:** Interim history of thyroid medication use in exam 3

Code or Value	Description
0	No thyroid medication usage
1	Thyroid medication usage
.	Did not attend exam/Unknown

**Note:** This variable was derived from C28 in core exam 3.

C28      THYROID  
           0 NO  
           1 YES (NOW)  
           2 YES (NOT NOW)  
           3 MAYBE  
           . UNKNOWN

Refer to R code for more information.

### THYROID\_MED\_CORE4

**Variable name:** thyroid\_med\_core4

**Description:** Interim history of thyroid medication use in exam 4

Code or Value	Description
0	No thyroid medication usage
1	Thyroid medication usage
.	Did not attend exam/Unknown

**Note:** This variable was derived from D033 and D034 in core exam 4.

D033              THYROID EXTRACT (DESSICATED THYROID)  
           0 NO  
           1 YES, NOW  
           2 YES, NOT NOW  
           3 MAYBE  
           . UNKNOWN

D034              THYROXINE (SYNTHROID ETC.)  
           0 NO  
           1 YES, NOW  
           2 YES, NOT NOW  
           3 MAYBE  
           . UNKNOWN

## Thyroid Medicine Variables

Refer to R code for more information.

### THYROID\_MED\_CORE5

**Variable name:** thyroid\_med\_core5

**Description:** Interim history of thyroid medication use in exam 5

Code or Value	Description
0	No thyroid medication usage
1	Thyroid medication usage
.	Did not attend exam/Unknown

**Note:** This variable was derived from E252 and E253 in core exam 5.

E252      THYROID EXTRACT  
0 NO  
1 YES, NOW  
2 YES, NOT NOW  
3 MAYBE  
. UNKNOWN

E253      THYROXINE  
0 NO  
1 YES, NOW  
2 YES, NOT NOW  
3 MAYBE  
. UNKNOWN

Refer to R code for more information.

### THYROID\_MED\_CORE6

**Variable name:** thyroid\_med\_core6

**Description:** Interim history of thyroid medication use in exam 6

Code or Value	Description
0	No thyroid medication usage
1	Thyroid medication usage
.	Did not attend exam/Unknown

**Note:** This variable was derived from F216 and F217 in core exam 6.

F216      MEDICATIONS : THYROID EXTRACT (DESSICATED  
            THYROID)  
0 NO  
1 YES, NOW

## Thyroid Medicine Variables

2 YES, NOT NOW  
3 MAYBE  
. UNKNOWN

F217      MEDICATIONS : THYROXINE (SYNTHROID, ETC)  
0 NO  
1 YES, NOW  
2 YES, NOT NOW  
3 MAYBE  
. UNKNOWN

Refer to R code for more information.

### THYROID\_MED\_CORE7

**Variable name:** thyroid\_med\_core7

**Description:** Interim history of thyroid medication use in exam 7

Code or Value	Description
0	No thyroid medication usage
1	Thyroid medication usage
.	Did not attend exam/Unknown

**Note:** This variable was derived from G048 and G049 in core exam 7.

G048      NON-CARDIOVASCULAR MEDICATIONS: THYROID EXTRACT  
(DESICCATED THYROID)  
0 NO  
1 YES, NOW  
2 YES, NOT NOW  
3 MAYBE  
. UNKNOWN

G049      NON-CARDIOVASCULAR MEDICATIONS: THYROXINE (SYNTHROID, ETC.)  
0 NO  
1 YES, NOW  
2 YES, NOT NOW  
3 MAYBE  
. UNKNOWN

Refer to R code for more information.

### THYROID\_MED\_CORE8

**Variable name:** thyroid\_med\_core8

**Description:** Interim history of thyroid medication use in exam 8

## Thyroid Medicine Variables

Code or Value	Description
0	No thyroid medication usage
1	Thyroid medication usage
.	Did not attend exam/Unknown

**Note:** This variable is based on ATC coded datasets. Refer to appendix/R code for more information.

### THYROID\_MED\_CORE9

**Variable name:** thyroid\_med\_core9

**Description:** Interim history of thyroid medication use in exam 9

Code or Value	Description
0	No thyroid medication usage
1	Thyroid medication usage
.	Did not attend exam/Unknown

**Note:** This variable is based on ATC coded datasets. Refer to appendix/R code for more information.

## Appendix – Thyroid ATC codes

### ATC codes for Thyroid

<b>H03</b>	<b>THYROID THERAPY</b>	
H03A	THYROID PREPARATIONS	
<i>H03AA</i>	<i>Thyroid hormones</i>	
H03AA01	Levothyroxine sodium	
H03AA02	Liothyronine sodium	
H03AA03	Combinations of levothyroxine and liothyronine	
H03AA04	Tiratricol	
H03AA05	Thyroid gland preparations	
H03B	ANTITHYROID PREPARATIONS	
<i>H03BA</i>	<i>Thiouracils</i>	
H03BA01	Methylthiouracil	
H03BA02	Propylthiouracil	
H03BA03	Benzylthiouracil	
<i>H03BB</i>	<i>Sulfur-containing imidazole derivatives</i>	
H03BB01	Carbimazole	
H03BB02	Thiamazole	
H03BB52	Thiamazole, combinations	
<i>H03BC</i>	<i>Perchlorates</i>	
H03BC01	Potassium perchlorate	
<i>H03BX</i>	<i>Other antithyroid preparations</i>	
H03BX01	Diiodotyrosine	
H03BX02	Dibromotyrosine	
H03C	IODINE THERAPY	
<i>H03CA</i>	<i>Iodine therapy</i>	<b>*not included</b>
<i>H03CA</i>	<i>Iodine therapy</i>	