

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
1	Generation 2 Cohort
7	Omni 1 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

H03	THYROID THERAPY	
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>	*not included
<i>H03CA</i>	<i>Iodine therapy</i>	