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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|  |
| --- |
| **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

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

**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 |
| . | Unknown |

**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

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

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

|  |  |
| --- | --- |
| **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.

**ATC codes for Thyroid**

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