This dataset is created based on Gen 3/Omni 2/NOS FHS participants' <u>self-reported</u> information from Exam 1 to Exam 3.

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

| FHS Core Exam   | 1 | 2 | 3 |
|-----------------|---|---|---|
| Antidepressants | Υ | Υ | Υ |
| Anxiolytics     | Υ | Υ | Υ |
| Hypnotics       | Υ | Υ | Υ |

• For all Gen 3/NOS/Omni 2 medication data, they are ATC (Anatomical Therapeutic Chemical Classification System) -coded. For in depth information, refer to appendix.

Last Updated: February 2024

### Antidepressants, Anxiolytics and Hypnotics

### Last Updated: February 2024

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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

| 00000 – 99999 | Gen 1 |
|---------------|-------|

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

#### ANTIDEPRESSANTS CORE1

Variable name: antidepressants core1

Description: Interim history of antidepressant medication use in exam 1

#### Code or Value Description

| 0 | No antidepressant usage     |
|---|-----------------------------|
| 1 | Antidepressant usage        |
|   | Did not attend exam/Unknown |

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

#### ANTIDEPRESSANTS\_CORE2

Variable name: antidepressants\_core2

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

#### Code or Value Description

| 0 | No antidepressant usage     |
|---|-----------------------------|
| 1 | Antidepressant usage        |
|   | Did not attend exam/Unknown |

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

#### **ANTIDEPRESSANTS CORE3**

Variable name: antidepressants core3

Description: Interim history of antidepressant medication use in exam 3

#### Code or Value Description

| 0 | No antidepressant usage     |
|---|-----------------------------|
| 1 | Antidepressant usage        |
|   | Did not attend exam/Unknown |

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

#### CDI\_DEPRESSION\_CORE1

Variable name: cdi depression core1

**Description:** Clinical diagnostic impression: Depression in exam 1

Code or Value Description

| 0 | No clinical diagnostic impression for depression |
|---|--|
| 1 | Clinical diagnostic impression for depression    |
|   | Did not attend exam                              |

Note: This variable is based on the variable G3A426 in FHS core exam 1 (Gen 3):

CDI – DEPRESSION

0 - NO

1 - YES

2 – MAYBE

. - UNKNOWN

Values 0 and 2 are recoded as 0; 1 is recoded as 1

The response of "." as well as participants who did not attend exam are coded as .

#### CDI\_DEPRESSION\_CORE2

Variable name: cdi\_depression\_core2

**Description:** Clinical diagnostic impression: Depression in exam 2

Code or Value Description

| 0 | No clinical diagnostic impression for depression |
|---|--|
| 1 | Clinical diagnostic impression for depression    |
|   | Did not attend exam                              |

**Note:** This variable is based on the variable G3B0448 in FHS core exam 2 (Gen 3):

CDI – DEPRESSION

0 – NO

1 – YES

2 – MAYBE

. – UNKNOWN

Values 0 and 2 are recoded as 0; 1 is recoded as 1

The response of "." as well as participants who did not attend exam are coded as .

#### **CDI DEPRESSION CORE3**

Variable name: cdi\_depression\_core3

#### **Depression Related Information**

**Description:** Clinical diagnostic impression: Depression in exam 3

#### Code or Value Description

| 0 | No clinical diagnostic impression for depression |
|---|--|
| 1 | Clinical diagnostic impression for depression    |
|   | Did not attend exam                              |

**Note:** This variable is based on the variable G3C0639 in FHS core exam 3 (Gen 3):

CDI – DEPRESSION

0 - NO

1 - YES

2 – MAYBE

. – UNKNOWN

Values 0 and 2 are recoded as 0; 1 is recoded as 1

The response of "." as well as participants who did not attend exam are coded as .

#### **DEPRESSION\_CORE1**

Variable name: depression\_core1

**Description:** Derived variable for depression in exam 1, based on anti-depressant medications

and clinical diagnostic impression for exam 1

#### Code or Value Description

| 0 | No depression               |
|---|-----------------------------|
| 1 | Depression present          |
|   | Did not attend exam/Unknown |

**Note:** This variable is based on the variable antidepressants\_core1 and CDI\_depression\_core1 in FHS core exam 1 (Gen 3). Refer to appendix/R code for more information.

### DEPRESSION\_CORE2

Variable name: depression\_core2

**Description:** Derived variable for depression in exam 2, based on anti-depressant medications

and clinical diagnostic impression for exam 2

#### Code or Value Description

| 0 | No depression               |
|---|-----------------------------|
| 1 | Depression present          |
|   | Did not attend exam/Unknown |

#### **Depression Related Information**

**Note:** This variable is based on the variable antidepressants\_core2 and CDI\_depression\_core2 in FHS core exam 2 (Gen 3). Refer to appendix/R code for more information.

#### **DEPRESSION\_CORE3**

Variable name: depression\_core3

**Description:** Derived variable for depression in exam 3, based on anti-depressant medications and clinical diagnostic impression for exam 3

### Code or Value Description

| 0 | No depression               |
|---|-----------------------------|
| 1 | Depression present          |
|   | Did not attend exam/Unknown |

**Note:** This variable is based on the variable antidepressants\_core3 and CDI\_depression\_core3 in FHS core exam 2 (Gen 3). Refer to appendix/R code for more information.

#### **ANXIOLYTICS\_CORE1**

Variable name: anxiolytics\_core1

**Description:** Interim history of anti-anxiety medication use in exam 1

#### Code or Value Description

| 0 | No anti-anxiety medication usage |
|---|----------------------------------|
| 1 | Anti-anxiety medication usage    |
|   | Did not attend exam/Unknown      |

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

#### ANXIOLYTICS\_CORE2

Variable name: anxiolytics core2

**Description:** Interim history of anti-anxiety medication use in exam 2

#### Code or Value Description

| 0 | No anti-anxiety medication usage |
|---|----------------------------------|
| 1 | Anti-anxiety medication usage    |
|   | Did not attend exam/Unknown      |

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

#### **ANXIOLYTICS\_CORE3**

Variable name: anxiolytics\_core3

**Description:** Interim history of anti-anxiety medication use in exam 3

#### Code or Value Description

| 0 | No anti-anxiety medication usage |
|---|----------------------------------|
| 1 | Anti-anxiety medication usage    |
|   | Did not attend exam/Unknown      |

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

#### CDI\_ANXIETY\_CORE1

Variable name: cdi anxiety core1

Description: Clinical diagnostic impression: Anxiety in exam 1

Code or Value Description

| 0 | No clinical diagnostic impression for anxiety |
|---|---|
| 1 | Clinical diagnostic impression for anxiety    |
|   | Did not attend exam                           |

**Note:** This variable is based on the variable G3A427 in FHS core exam 1 (Gen 3):

CDI - ANXIETY

0 - NO

1 - YES

2 – MAYBE

. – UNKNOWN

Values 0 and 2 are recoded as 0; 1 is recoded as 1

The response of "." as well as participants who did not attend exam are coded as .

#### CDI\_ANXIETY\_CORE2

Variable name: cdi\_anxiety\_core2

Description: Clinical diagnostic impression: Anxiety in exam 2

#### Code or Value Description

| 0 | No clinical diagnostic impression for anxiety |
|---|---|
| 1 | Clinical diagnostic impression for anxiety    |
|   | Did not attend exam                           |

Note: This variable is based on the variable G3B0449 in FHS core exam 2 (Gen 3):

CDI - ANXIETY

0 - NO

1 - YES

2 - MAYBE

. – UNKNOWN

Values 0 and 2 are recoded as 0; 1 is recoded as 1

The response of "." as well as participants who did not attend exam are coded as .

#### CDI\_ANXIETY\_CORE3

Variable name: cdi\_anxiety\_core3

Description: Clinical diagnostic impression: Anxiety in exam 3

Code or Value Description

#### **Anxiolytics**

| 0 | No clinical diagnostic impression for anxiety |
|---|---|
| 1 | Clinical diagnostic impression for anxiety    |
|   | Did not attend exam                           |

**Note:** This variable is based on the variable G3C0640 in FHS core exam 3 (Gen 3):

CDI - ANXIETY

0 - NO

1 - YES

2 - MAYBE

. - UNKNOWN

Values 0 and 2 are recoded as 0; 1 is recoded as 1

The response of "." as well as participants who did not attend exam are coded as .

#### ANXIETY\_CORE1

Variable name: anxiety\_core1

Description: Derived variable for anxiety in exam 1, based on anxiolytic medications and clinical

diagnostic impression for exam 1

#### Code or Value Description

| 0 | No depression               |
|---|-----------------------------|
| 1 | Depression present          |
|   | Did not attend exam/Unknown |

**Note:** This variable is based on the variable anxiolytics\_core1 and CDI\_anxiety\_core1 in FHS core exam 1 (Gen 3). Refer to appendix/R code for more information.

#### ANXIETY\_CORE2

Variable name: anxiety core2

**Description:** Derived variable for anxiety in exam 2, based on anxiolytic medications and clinical

diagnostic impression for exam 2

#### Code or Value Description

| 0 | No depression               |
|---|-----------------------------|
| 1 | Depression present          |
|   | Did not attend exam/Unknown |

**Note:** This variable is based on the variable anxiolytics\_core2 and CDI\_anxiety\_core2 in FHS core exam 2 (Gen 3). Refer to appendix/R code for more information.

### ANXIETY\_CORE3

Variable name: anxiety\_core3

Description: Derived variable for anxiety in exam 3, based on anxiolytic medications and clinical

diagnostic impression for exam 3

### Code or Value Description

| 0 | No depression               |
|---|-----------------------------|
| 1 | Depression present          |
|   | Did not attend exam/Unknown |

**Note:** This variable is based on the variable anxiolytics\_core3 and CDI\_anxiety\_core3 in FHS core exam 3 (Gen 3). Refer to appendix/R code for more information.

#### **HYPNOTICS\_CORE1**

Variable name: hypnotics\_core1

Description: Interim history of hypnotic medication (sleeping pill) use in exam 1

#### Code or Value Description

| 0 | No hypnotic medication usage |
|---|------------------------------|
| 1 | Hypnotic medication usage    |
|   | Did not attend exam/Unknown  |

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

#### **HYPNOTICS CORE2**

Variable name: hypnotics\_core2

Description: Interim history of hypnotic medication (sleeping pill) use in exam 2

#### Code or Value Description

| 0 | No hypnotic medication usage |  |
|---|------------------------------|--|
| 1 | Hypnotic medication usage    |  |
|   | Did not attend exam/Unknown  |  |

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

#### **HYPNOTICS\_CORE3**

Variable name: hypnotics core3

Description: Interim history of hypnotic medication (sleeping pill) use in exam 3

#### Code or Value Description

| (  | 0 | No hypnotic medication usage |  |
|----|---|------------------------------|--|
| :  | 1 | Hypnotic medication usage    |  |
| Γ. |   | Did not attend exam/Unknown  |  |

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

#### **Derived variable: Depression**

The condition of depression with a suffix to indicate the core exam number – depression\_core – is derived based on two variables:

Antidepressant (antidepressants\_core): Interim history of antidepressant medication use

- 0 No antidepressant usage
- 1 Antidepressant usage
- . Did not attend exam/Unknown

CDI (cdi depression core): Clinical diagnostic impression

- 0 No clinical diagnostic impression for depression
- 1 Clinical diagnostic impression for depression
- . Did not attend exam/Unknown

**EXAMS 1-3** 

Logic programming:

| Antidepressant | CDI | Depression |
|----------------|-----|------------|
| 1              | 1   | 1          |
| 1              | 0   | 1          |
| 0              | 1   | 0          |
| 0              | 0   | 0          |
| •              | 1   | 1          |
|                | 0   | 0          |
| 1              | •   | 1          |
| 0              | •   | 0          |
|                | •   |            |

#### **Derived variable: Anxiety**

The condition of depression with a suffix to indicate the core exam number – anxiety\_core – is derived based on two variables:

Anxiolytics (anxiolytics\_core): Interim history of antidepressant medication use

- 0 No anxiolytic usage
- 1 Anxiolytic usage
- . Did not attend exam/Unknown

CDI (cdi\_anxiety\_core): Clinical diagnostic impression

- 0 No clinical diagnostic impression for anxiety
- 1 Clinical diagnostic impression for anxiety
- . Did not attend exam/Unknown

**EXAMS 1-3** 

Logic programming:

| Anxiolytic | CDI | Anxiety |
|------------|-----|---------|
| 1          | 1   | 1       |
| 1          | 0   | 1       |
| 0          | 1   | 0       |
| 0          | 0   | 0       |
|            | 1   | 1       |
|            | 0   | 0       |
| 1          |     | 1       |
| 0          |     | 0       |
|            |     |         |

# ATC codes for antidepressants

| ATC CODE<br>FOR<br>MEDICATION<br>OR FIRST<br>DRUG IN<br>COMPOUND | MEDICATION       | Notes                                     |
|--|------------------|---|
| N06AA01  | Desipramine      |   |
| N06AA02  | Imipramine       |   |
| N06AA03  | Imipramine oxide |   |
| N06AA04  | Clomipramine     |   |
| N06AA05  | Opipramol        |   |
| N06AA06  | Trimipramine     |   |
| N06AA07  | Lofepramine      |   |
| N06AA08  | Dibenzepin       |   |
| N06AA09  | Amitriptyline    | *tricyclics also used for pain/neuropathy |
| N06AA10  | Nortriptyline    | *tricyclics also used for pain/neuropathy |
| N06AA11  | Protriptyline    |   |
| N06AA12  | Doxepin          |   |
| N06AA13  | Iprindole        |   |
| N06AA14  | Melitracen       |   |
| N06AA15  | Butriptyline     |   |
| N06AA16  | Dosulepin        |   |
| N06AA17  | Amoxapine        |   |
| N06AA18  | Dimetacrine      |   |
| N06AA19  | Amineptine       |   |
| N06AA21  | Maprotiline      |   |
| N06AA23  | Quinupramine     |   |
| N06AB02  | Zimeldine        |   |
| N06AB03  | Fluoxetine       |   |
| N06AB04  | Citalopram       |   |
| N06AB05  | Paroxetine       |   |
| N06AB06  | Sertraline       |   |
| N06AB07  | Alaproclate      |   |
| N06AB08  | Fluvoxamine      |   |
| N06AB09  | Etoperidone      |   |
| N06AB10  | Escitalopram     |   |
| N06AF01  | Isocarboxazid    |   |
| N06AF02  | Nialamide        |   |

# Appendix – Antidepressant ATC codes

| NO6AF03         Phenelzine           NO6AF04         Tranylcypromine           N06AF05         Iproniazide           N06AF06         Iproclozide           N06AG02         Moclobemide           N06AG03         Toloxatone           N06AX01         Oxitriptan           N06AX02         Tryptophan           N06AX03         Mianserin           N06AX04         Nomifensine           N06AX05         Trazodone           N06AX06         Nefazodone           N06AX07         Minaprine           N06AX08         Bifemelane           N06AX09         Viloxazine           N06AX10         Oxaflozane           N06AX11         Mirtazapine           N06AX12         Medifoxamine           N06AX13         Medifoxamine           N06AX14         Tianeptine           N06AX15         Pivagabine           N06AX16         Venlafaxine           N06AX17         Milnacipran           N06AX18         Reboxetine           N06AX21         Duloxetine           N06AX22         Agomelatine           N06AX23         Desvenlafaxine           N06AX24         vilazodone |         | 1               |                |
|---|---------|-----------------|----------------|
| N06AF05IproniazideN06AF06IproclozideN06AG02MoclobemideN06AG03ToloxatoneN06AX01OxitriptanN06AX02TryptophanN06AX03MianserinN06AX04NomifensineN06AX05TrazodoneN06AX06NefazodoneN06AX07MinaprineN06AX08BifemelaneN06AX09ViloxazineN06AX10OxaflozaneN06AX11MirtazapineN06AX12MedifoxamineN06AX13MedifoxamineN06AX14TianeptineN06AX15PivagabineN06AX16VenlafaxineN06AX17MilnacipranN06AX18ReboxetineN06AX19GepironeN06AX21DuloxetineN06AX22AgomelatineN06AX23DesvenlafaxineN06AX24vilazodoneN06AX25Hyperici herba*St Johns WortN06AX26vortioxetineN06AX27esketamineN06AX28levomilnacipran   | N06AF03 | Phenelzine      |                |
| N06AF06 Iproclozide N06AG02 Moclobemide N06AG03 Toloxatone N06AX01 Oxitriptan N06AX02 Tryptophan N06AX03 Mianserin N06AX04 Nomifensine N06AX05 Trazodone N06AX06 Nefazodone N06AX07 Minaprine N06AX08 Bifemelane N06AX09 Viloxazine N06AX10 Oxaflozane N06AX11 Mirtazapine N06AX11 Mirtazapine N06AX13 Medifoxamine N06AX14 Tianeptine N06AX15 Pivagabine N06AX16 Venlafaxine N06AX17 Milnacipran N06AX18 Reboxetine N06AX19 Gepirone N06AX20 Agomelatine N06AX21 Duloxetine N06AX21 Duloxetine N06AX21 Divazone N06AX22 Agomelatine N06AX23 Desvenlafaxine N06AX24 vilazodone N06AX25 Hyperici herba *St Johns Wort N06AX27 esketamine N06AX27 esketamine N06AX27 esketamine   | N06AF04 |                 |                |
| N06AG02MoclobemideN06AG03ToloxatoneN06AX01OxitriptanN06AX02TryptophanN06AX03MianserinN06AX04NomifensineN06AX05TrazodoneN06AX06NefazodoneN06AX07MinaprineN06AX08BifemelaneN06AX09ViloxazineN06AX10OxaflozaneN06AX11MirtazapineN06AX13MedifoxamineN06AX14TianeptineN06AX15PivagabineN06AX16VenlafaxineN06AX17MilnacipranN06AX18ReboxetineN06AX20AgomelatineN06AX21DuloxetineN06AX22AgomelatineN06AX23DesvenlafaxineN06AX24vilazodoneN06AX25Hyperici herba*St Johns WortN06AX26vortioxetineN06AX27esketamineN06AX28levomilnacipran   | N06AF05 | <u>'</u>        |                |
| N06AG03         Toloxatone           N06AX01         Oxitriptan           N06AX02         Tryptophan           N06AX03         Mianserin           N06AX04         Nomifensine           N06AX05         Trazodone           N06AX06         Nefazodone           N06AX07         Minaprine           N06AX08         Bifemelane           N06AX09         Viloxazine           N06AX10         Oxaflozane           N06AX11         Mirtazapine           N06AX13         Medifoxamine           N06AX14         Tianeptine           N06AX15         Pivagabine           N06AX16         Venlafaxine           N06AX17         Milnacipran           N06AX18         Reboxetine           N06AX19         Gepirone           N06AX21         Duloxetine           N06AX22         Agomelatine           N06AX23         Desvenlafaxine           N06AX24         vilazodone           N06AX25         Hyperici herba         *St Johns Wort           N06AX28         levomilnacipran  | N06AF06 | Iproclozide     |                |
| N06AX01OxitriptanN06AX02TryptophanN06AX03MianserinN06AX04NomifensineN06AX05TrazodoneN06AX06NefazodoneN06AX07MinaprineN06AX08BifemelaneN06AX09ViloxazineN06AX10OxaflozaneN06AX11MirtazapineN06AX13MedifoxamineN06AX14TianeptineN06AX15PivagabineN06AX16VenlafaxineN06AX17MilnacipranN06AX18ReboxetineN06AX19GepironeN06AX21DuloxetineN06AX22AgomelatineN06AX23DesvenlafaxineN06AX24vilazodoneN06AX25Hyperici herba*St Johns WortN06AX27esketamineN06AX28levomilnacipran  | N06AG02 | Moclobemide     |                |
| N06AX02 Tryptophan N06AX03 Mianserin N06AX04 Nomifensine N06AX05 Trazodone N06AX06 Nefazodone N06AX07 Minaprine N06AX08 Bifemelane N06AX09 Viloxazine N06AX10 Oxaflozane N06AX11 Mirtazapine N06AX13 Medifoxamine N06AX14 Tianeptine N06AX15 Pivagabine N06AX16 Venlafaxine N06AX17 Milnacipran N06AX18 Reboxetine N06AX18 Reboxetine N06AX21 Duloxetine N06AX21 Duloxetine N06AX22 Agomelatine N06AX24 vilazodone N06AX25 Hyperici herba *St Johns Wort N06AX27 esketamine N06AX28 levomilnacipran   | N06AG03 | Toloxatone      |                |
| N06AX03MianserinN06AX04NomifensineN06AX05TrazodoneN06AX06NefazodoneN06AX07MinaprineN06AX08BifemelaneN06AX09ViloxazineN06AX10OxaflozaneN06AX11MirtazapineN06AX13MedifoxamineN06AX14TianeptineN06AX15PivagabineN06AX16VenlafaxineN06AX17MilnacipranN06AX18ReboxetineN06AX19GepironeN06AX21DuloxetineN06AX22AgomelatineN06AX23DesvenlafaxineN06AX24vilazodoneN06AX25Hyperici herba*St Johns WortN06AX27esketamineN06AX28levomilnacipran  | N06AX01 | Oxitriptan      |                |
| N06AX04NomifensineN06AX05TrazodoneN06AX06NefazodoneN06AX07MinaprineN06AX08BifemelaneN06AX09ViloxazineN06AX10OxaflozaneN06AX11MirtazapineN06AX13MedifoxamineN06AX14TianeptineN06AX15PivagabineN06AX16VenlafaxineN06AX17MilnacipranN06AX18ReboxetineN06AX19GepironeN06AX21DuloxetineN06AX22AgomelatineN06AX23DesvenlafaxineN06AX24vilazodoneN06AX25Hyperici herba*St Johns WortN06AX27esketamineN06AX28levomilnacipran  | N06AX02 | Tryptophan      |                |
| N06AX05         Trazodone           N06AX06         Nefazodone           N06AX07         Minaprine           N06AX08         Bifemelane           N06AX09         Viloxazine           N06AX10         Oxaflozane           N06AX11         Mirtazapine           N06AX13         Medifoxamine           N06AX14         Tianeptine           N06AX15         Pivagabine           N06AX16         Venlafaxine           N06AX17         Milnacipran           N06AX18         Reboxetine           N06AX19         Gepirone           N06AX21         Duloxetine           N06AX22         Agomelatine           N06AX23         Desvenlafaxine           N06AX24         vilazodone           N06AX25         Hyperici herba         *St Johns Wort           N06AX27         esketamine           N06AX28         levomilnacipran  | N06AX03 | Mianserin       |                |
| N06AX06NefazodoneN06AX07MinaprineN06AX08BifemelaneN06AX09ViloxazineN06AX10OxaflozaneN06AX11MirtazapineN06AX13MedifoxamineN06AX14TianeptineN06AX15PivagabineN06AX16VenlafaxineN06AX17MilnacipranN06AX18ReboxetineN06AX21DuloxetineN06AX21DuloxetineN06AX22AgomelatineN06AX23DesvenlafaxineN06AX24vilazodoneN06AX25Hyperici herba*St Johns WortN06AX27esketamineN06AX28levomilnacipran  | N06AX04 | Nomifensine     |                |
| N06AX07 Minaprine N06AX08 Bifemelane N06AX09 Viloxazine N06AX10 Oxaflozane N06AX11 Mirtazapine N06AX13 Medifoxamine N06AX14 Tianeptine N06AX15 Pivagabine N06AX16 Venlafaxine N06AX17 Milnacipran N06AX18 Reboxetine N06AX19 Gepirone N06AX21 Duloxetine N06AX21 Duloxetine N06AX22 Agomelatine N06AX23 Desvenlafaxine N06AX24 vilazodone N06AX25 Hyperici herba *St Johns Wort N06AX26 vortioxetine N06AX27 esketamine N06AX27 esketamine N06AX28 levomilnacipran  | N06AX05 | Trazodone       |                |
| N06AX08 Bifemelane N06AX09 Viloxazine N06AX10 Oxaflozane N06AX11 Mirtazapine N06AX13 Medifoxamine N06AX14 Tianeptine N06AX15 Pivagabine N06AX16 Venlafaxine N06AX17 Milnacipran N06AX18 Reboxetine N06AX19 Gepirone N06AX21 Duloxetine N06AX21 Duloxetine N06AX22 Agomelatine N06AX23 Desvenlafaxine N06AX24 vilazodone N06AX25 Hyperici herba *St Johns Wort N06AX26 vortioxetine N06AX27 esketamine N06AX28 levomilnacipran   | N06AX06 | Nefazodone      |                |
| N06AX09 Viloxazine N06AX10 Oxaflozane N06AX11 Mirtazapine N06AX13 Medifoxamine N06AX14 Tianeptine N06AX15 Pivagabine N06AX16 Venlafaxine N06AX17 Milnacipran N06AX18 Reboxetine N06AX19 Gepirone N06AX21 Duloxetine N06AX21 Duloxetine N06AX22 Agomelatine N06AX23 Desvenlafaxine N06AX24 vilazodone N06AX25 Hyperici herba *St Johns Wort N06AX26 vortioxetine N06AX27 esketamine N06AX28 levomilnacipran  | N06AX07 | Minaprine       |                |
| N06AX10OxaflozaneN06AX11MirtazapineN06AX13MedifoxamineN06AX14TianeptineN06AX15PivagabineN06AX16VenlafaxineN06AX17MilnacipranN06AX18ReboxetineN06AX19GepironeN06AX21DuloxetineN06AX22AgomelatineN06AX23DesvenlafaxineN06AX24vilazodoneN06AX25Hyperici herba*St Johns WortN06AX26vortioxetineN06AX27esketamineN06AX28levomilnacipran  | N06AX08 | Bifemelane      |                |
| N06AX11 Mirtazapine N06AX13 Medifoxamine N06AX14 Tianeptine N06AX15 Pivagabine N06AX16 Venlafaxine N06AX17 Milnacipran N06AX18 Reboxetine N06AX19 Gepirone N06AX21 Duloxetine N06AX21 Duloxetine N06AX22 Agomelatine N06AX23 Desvenlafaxine N06AX24 vilazodone N06AX25 Hyperici herba *St Johns Wort N06AX26 vortioxetine N06AX27 esketamine N06AX28 levomilnacipran  | N06AX09 | Viloxazine      |                |
| N06AX13 Medifoxamine N06AX14 Tianeptine N06AX15 Pivagabine N06AX16 Venlafaxine N06AX17 Milnacipran N06AX18 Reboxetine N06AX19 Gepirone N06AX21 Duloxetine N06AX21 Duloxetine N06AX22 Agomelatine N06AX23 Desvenlafaxine N06AX24 vilazodone N06AX25 Hyperici herba *St Johns Wort N06AX26 vortioxetine N06AX27 esketamine N06AX28 levomilnacipran  | N06AX10 | Oxaflozane      |                |
| N06AX14 Tianeptine  N06AX15 Pivagabine  N06AX16 Venlafaxine  N06AX17 Milnacipran  N06AX18 Reboxetine  N06AX19 Gepirone  N06AX21 Duloxetine  N06AX22 Agomelatine  N06AX23 Desvenlafaxine  N06AX24 vilazodone  N06AX25 Hyperici herba *St Johns Wort  N06AX26 vortioxetine  N06AX27 esketamine  N06AX28 levomilnacipran   | N06AX11 | Mirtazapine     |                |
| N06AX15PivagabineN06AX16VenlafaxineN06AX17MilnacipranN06AX18ReboxetineN06AX19GepironeN06AX21DuloxetineN06AX22AgomelatineN06AX23DesvenlafaxineN06AX24vilazodoneN06AX25Hyperici herba*St Johns WortN06AX26vortioxetineN06AX27esketamineN06AX28levomilnacipran   | N06AX13 | Medifoxamine    |                |
| N06AX16VenlafaxineN06AX17MilnacipranN06AX18ReboxetineN06AX19GepironeN06AX21DuloxetineN06AX22AgomelatineN06AX23DesvenlafaxineN06AX24vilazodoneN06AX25Hyperici herba*St Johns WortN06AX26vortioxetineN06AX27esketamineN06AX28levomilnacipran  | N06AX14 | Tianeptine      |                |
| N06AX17 Milnacipran  N06AX18 Reboxetine  N06AX19 Gepirone  N06AX21 Duloxetine  N06AX22 Agomelatine  N06AX23 Desvenlafaxine  N06AX24 vilazodone  N06AX25 Hyperici herba *St Johns Wort  N06AX26 vortioxetine  N06AX27 esketamine  N06AX28 levomilnacipran  | N06AX15 | Pivagabine      |                |
| N06AX18 Reboxetine N06AX19 Gepirone N06AX21 Duloxetine N06AX22 Agomelatine N06AX23 Desvenlafaxine N06AX24 vilazodone N06AX25 Hyperici herba *St Johns Wort N06AX26 vortioxetine N06AX27 esketamine N06AX28 levomilnacipran  | N06AX16 | Venlafaxine     |                |
| N06AX19GepironeN06AX21DuloxetineN06AX22AgomelatineN06AX23DesvenlafaxineN06AX24vilazodoneN06AX25Hyperici herba*St Johns WortN06AX26vortioxetineN06AX27esketamineN06AX28levomilnacipran   | N06AX17 | Milnacipran     |                |
| N06AX21DuloxetineN06AX22AgomelatineN06AX23DesvenlafaxineN06AX24vilazodoneN06AX25Hyperici herba*St Johns WortN06AX26vortioxetineN06AX27esketamineN06AX28levomilnacipran  | N06AX18 | Reboxetine      |                |
| N06AX22AgomelatineN06AX23DesvenlafaxineN06AX24vilazodoneN06AX25Hyperici herba*St Johns WortN06AX26vortioxetineN06AX27esketamineN06AX28levomilnacipran   | N06AX19 | Gepirone        |                |
| N06AX23DesvenlafaxineN06AX24vilazodoneN06AX25Hyperici herba*St Johns WortN06AX26vortioxetineN06AX27esketamineN06AX28levomilnacipran   | N06AX21 | Duloxetine      |                |
| N06AX24vilazodoneN06AX25Hyperici herba*St Johns WortN06AX26vortioxetineN06AX27esketamineN06AX28levomilnacipran  | N06AX22 | Agomelatine     |                |
| N06AX25Hyperici herba*St Johns WortN06AX26vortioxetineN06AX27esketamineN06AX28levomilnacipran   | N06AX23 | Desvenlafaxine  |                |
| N06AX26vortioxetineN06AX27esketamineN06AX28levomilnacipran  | N06AX24 | vilazodone      |                |
| N06AX27 esketamine N06AX28 levomilnacipran  | N06AX25 | Hyperici herba  | *St Johns Wort |
| N06AX28 levomilnacipran   | N06AX26 | vortioxetine    |                |
| ·   | N06AX27 | esketamine      |                |
| N06AX29 brexanolone   | N06AX28 | levomilnacipran |                |
|   | N06AX29 | brexanolone     |                |

# ATC codes for anxiolytics

| ATC CODE FOR MEDICATION OR FIRST DRUG IN COMPOUND | MEDICATION           | Notes                         |
|---|----------------------|-------------------------------|
| N05BA01   | Diazepam             | *=also used to treat seizures |
| N05BA02   | Chlordiazepoxide     |                               |
| N05BA03   | Medazepam            |                               |
| N05BA04   | Oxazepam             |                               |
| N05BA05   | Potassium            |                               |
|   | clorazepate          |                               |
| N05BA06   | Lorazepam            | *=also used to treat seizures |
| N05BA07   | Adinazolam           |                               |
| N05BA08   | Bromazepam           |                               |
| N05BA09   | Clobazam             | *=also used to treat seizures |
| N05BA10   | Ketazolam            |                               |
| N05BA11   | Prazepam             |                               |
| N05BA12   | Alprazolam           |                               |
| N05BA13   | Halazepam            |                               |
| N05BA14   | Pinazepam            |                               |
| N05BA15   | Camazepam            |                               |
| N05BA16   | Nordazepam           |                               |
| N05BA17   | Fludiazepam          |                               |
| N05BA18   | Ethyl loflazepate    |                               |
| N05BA19   | Etizolam             |                               |
| N05BA21   | Clotiazepam          |                               |
| N05BA22   | Cloxazolam           |                               |
| N05BA23   | Tofisopam            |                               |
| N05BA56   | Lorazepam, combinat  | ions                          |
| N05BB01   | Hydroxyzine          | *Also used as Antihistamine   |
| N05BB02   | Captodiame           |                               |
| N05BB51   | Hydroxyzine, combina | tions                         |
| N05BC01   | Meprobamate          |                               |
| N05BC03   | Emylcamate           |                               |
| N05BC04   | Mebutamate           |                               |
| N05BC51   | Meprobamate, combi   | nations                       |
| N05BD01   | Benzoctamine         |                               |
| N05BE01   | Buspirone            |                               |
| N05BX01   | Mephenoxalone        |                               |

# Appendix – Anxiolytic ATC codes

| N05BX02 | Gedocarnil   |           |
|---------|--------------|-----------|
| N05BX03 | Etifoxine    |           |
| N05BX04 | fabomotizole |           |
| N05BX05 | Lavandulae   | *Lavender |
|         | aetheroleum  |           |

# ATC codes for hypnotics

| ATC CODE FOR<br>MEDICATION<br>OR FIRST DRUG<br>IN COMPOUND | MEDICATION                                   | Notes                         |
|--|--|-------------------------------|
| N05CA01  | Pentobarbital                                |                               |
| N05CA02  | Amobarbital                                  |                               |
| N05CA03  | Butobarbital                                 |                               |
| N05CA04  | Barbital                                     |                               |
| N05CA05  | Aprobarbital                                 |                               |
| N05CA06  | Secobarbital                                 |                               |
| N05CA07  | Talbutal                                     |                               |
| N05CA08  | Vinylbital                                   |                               |
| N05CA09  | Vinbarbital                                  |                               |
| N05CA10  | Cyclobarbital                                |                               |
| N05CA11  | Heptabarbital                                |                               |
| N05CA12  | Reposal                                      |                               |
| N05CA15  | Methohexital                                 |                               |
| N05CA16  | Hexobarbital                                 |                               |
| N05CA19  | Thiopental                                   |                               |
| N05CA20  | Etallobarbital                               |                               |
| N05CA21  | Allobarbital                                 |                               |
| N05CA22  | Proxibarbal                                  |                               |
| N05CB01  | Combinations of barbiturates                 | *also used for migraine       |
| N05CB02  | Barbiturates in combination with other drugs | *also used for migraine       |
| N05CC01  | Chloral hydrate                              |                               |
| N05CC02  | Chloralodol                                  |                               |
| N05CC03  | Acetylglycinamide chloral hydrate            |                               |
| N05CC04  | Dichloralphenazone                           |                               |
| N05CC05  | Paraldehyde                                  |                               |
| N05CD01  | Flurazepam                                   |                               |
| N05CD02  | Nitrazepam                                   |                               |
| N05CD03  | Flunitrazepam                                |                               |
| N05CD04  | Estazolam                                    |                               |
| N05CD05  | Triazolam                                    |                               |
| N05CD06  | Lormetazepam                                 |                               |
| N05CD07  | Temazepam                                    |                               |
| N05CD08  | Midazolam                                    | *=also used to treat seizures |

| N05CD09 | Brotizolam                   |                               |
|---------|------------------------------|-------------------------------|
| N05CD10 | Quazepam                     |                               |
| N05CD11 | Loprazolam                   |                               |
| N05CD12 | Doxefazepam                  |                               |
| N05CD13 | Cinolazepam                  |                               |
| N05CD14 | remimazolam                  |                               |
| N05CD15 | nimetazepam                  |                               |
| N05CE01 | Glutethimide                 |                               |
| N05CE02 | Methyprylon                  |                               |
| N05CE03 | Pyrithyldione                |                               |
| N05CF01 | Zopiclone                    |                               |
| N05CF02 | Zolpidem                     |                               |
| N05CF03 | Zaleplon                     |                               |
| N05CF04 | eszopiclone                  |                               |
| N05CH01 | Melatonin                    |                               |
| N05CH02 | ramelteon                    |                               |
| N05CH03 | tasimelteon                  |                               |
| N05CM01 | Methaqualone                 |                               |
| N05CM02 | Clomethiazole                |                               |
| N05CM03 | Bromisoval                   |                               |
| N05CM04 | Carbromal                    |                               |
| N05CM05 | Scopolamine                  | *Also used for vertigo/Motion |
|         |                              | sickness                      |
| N05CM06 | Propiomazine                 |                               |
| N05CM07 | Triclofos                    |                               |
| N05CM08 | Ethchlorvynol                |                               |
| N05CM09 | Valerian                     |                               |
| N05CM10 | Hexapropymate                |                               |
| N05CM11 | Bromides                     |                               |
| N05CM12 | Apronal                      |                               |
| N05CM13 | Valnoctamide                 |                               |
| N05CM15 | Methylpentynol               |                               |
| N05CM16 | Niaprazine                   |                               |
| N05CM17 | Melatonin                    |                               |
| N05CM18 | Dexmedetomidine              |                               |
| N05CM19 | suvorexant                   |                               |
| N05CM21 | lemborexant                  |                               |
| N05CX01 | Meprobamate, combinations    |                               |
| N05CX02 | Methaqualone, combinations   |                               |
| N05CX03 | Methylpentynol, combinations |                               |

### Appendix – Hypnotic ATC codes

| N05CX04 | Clomethiazole, combinations           |  |
|---------|---------------------------------------|--|
| N05CX05 | Emepronium, combinations              |  |
| N05CX06 | Dipiperonylaminoethanol, combinations |  |