

## Supplementary Material

### Appendix A: READ and ICD-10 Codes Used to Identify Depression

READ Code	Description
<b>3004a</b>	Depression
<b>E2b..00</b>	Depressive Disorder Nec
<b>E204.00</b>	Neurotic Depression Reactive Type
<b>1b17.00</b>	Depressed
<b>Eu32z11</b>	[X]Depression Nos
<b>3004am</b>	Mood Depressed
<b>3004er</b>	Reactive Depression
<b>1b17.11</b>	C/O - Feeling Depressed
<b>3004l</b>	Looking Depressed
<b>E112.14</b>	Endogenous Depression
<b>E112.11</b>	Agitated Depression
<b>2960ad</b>	Depression Agitated
<b>E204.11</b>	Postnatal Depression
<b>E135.00</b>	Agitated Depression
ICD-10 Code	Definition
<b>F20.4</b>	post-schizophrenic depression
<b>F31.3</b>	Bipolar affective disorder, current episode mild or moderate depression
<b>F31.4</b>	Bipolar affective disorder, current episode severe depression without psychotic symptoms
<b>F31.5</b>	Bipolar affective disorder, current episode severe depression with psychotic symptoms
<b>F31.6</b>	Bipolar affective disorder, current episode mixed
<b>F32.0</b>	Mild depressive episode
<b>F32.1</b>	Moderate depressive episode
<b>F32.2</b>	Severe depressive episode without psychotic symptoms
<b>F32.3</b>	Severe depressive episode with psychotic symptoms
<b>F32.4</b>	Depressive disorder, single episode in partial remission
<b>F32.5</b>	Depressive disorder, single episode in full remission
<b>F32.8</b>	Other depressive episodes
<b>F32.9</b>	Depressive episode, unspecified
<b>F33.0</b>	Recurrent depressive disorder, current episode

	mild
<b>F33.1</b>	Recurrent depressive disorder, current episode moderate
<b>F33.2</b>	Recurrent depressive disorder, current episode severe without psychotic symptoms
<b>F33.3</b>	Recurrent depressive disorder, current episode severe with psychotic symptoms
<b>F33.8</b>	Other recurrent depressive disorders
<b>F33.9</b>	Recurrent depressive disorder, unspecified
<b>F34.1</b>	Dysthymia
<b>F34.8</b>	Other persistent mood [affective] disorders
<b>F34.9</b>	Persistent mood [affective] disorder, unspecified
<b>F38.0</b>	Other single mood [affective] disorders
<b>F38.1</b>	Other recurrent mood [affective] disorders
<b>F38.8</b>	Other specified mood [affective] disorders
<b>F39</b>	Unspecified mood [affective] disorder
<b>F41.2</b>	Mixed anxiety and depressive disorder
<b>F99</b>	Mental disorder, not elsewhere specified

#### Appendix B: READ and ICD-10 Codes Used to Identify Self-harm

<b>READ Code</b>	<b>Description</b>
<b>SL..14</b>	Overdose of biological substance
<b>SL..15</b>	Overdose of drug
<b>SLHz.00</b>	Drug and medicament poisoning not otherwise specified
<b>TK..00</b>	Suicide and self-inflicted injury
<b>TK..11</b>	Cause of overdose "deliberate
<b>TK..12</b>	Injury "self-inflicted
<b>TK..13</b>	Poisoning "self-inflicted
<b>TK..14</b>	Suicide and self-harm
<b>TK..15</b>	Attempted suicide
<b>TK..17</b>	Para-suicide
<b>TK0.00</b>	Suicide + self-inflicted poisoning by solid/liquid substances
<b>TK00.00</b>	Suicide + self-inflicted poisoning by analgesic/antipyretic
<b>TK01.00</b>	Suicide + self-inflicted poisoning by barbiturates
<b>TK01000</b>	Suicide and self-inflicted injury by amylobarbitone
<b>TK01100</b>	Suicide and self-inflicted injury by barbitone
<b>TK01400</b>	Suicide and self-inflicted injury by phenobarbitone
<b>TK02.00</b>	Suicide + self-inflicted poisoning by other sedatives/hypnotics
<b>TK03.00</b>	Suicide + self-inflicted poisoning tranquilizer/psychotropic
<b>TK04.00</b>	Suicide + self-inflicted poisoning by other drugs/medicines

<b>TK05.00</b>	Suicide + self-inflicted poisoning by drug or medicine not otherwise specified
<b>TK06.00</b>	Suicide + self-inflicted poisoning by agricultural chemical
<b>TK07.00</b>	Suicide + self-inflicted poisoning by corrosive/caustic substance
<b>TK0z.00</b>	Suicide + self-inflicted poisoning by solid/liquid substance not otherwise specified
<b>TK1.00</b>	Suicide + self-inflicted poisoning by gases in domestic use
<b>TK10.00</b>	Suicide + self-inflicted poisoning by gas via pipeline
<b>TK11.00</b>	Suicide + self-inflicted poisoning by liquified petrol gas
<b>TK1y.00</b>	Suicide and self-inflicted poisoning by other utility gas
<b>TK1z.00</b>	Suicide + self-inflicted poisoning by domestic gases not otherwise specified
<b>TK2.00</b>	Suicide + self-inflicted poisoning by other gases and vapours
<b>TK20.00</b>	Suicide + self-inflicted poisoning by motor vehicle exhaust gas
<b>TK21.00</b>	Suicide and self-inflicted poisoning by other carbon monoxide
<b>TK2z.00</b>	Suicide + self-inflicted poisoning by gases and vapours not otherwise specified
<b>TK3.00</b>	Suicide + self-inflicted injury by hang/strangulate/suffocate
<b>TK30.00</b>	Suicide and self-inflicted injury by hanging
<b>TK31.00</b>	Suicide + self-inflicted injury by suffocation by plastic bag
<b>TK3y.00</b>	Suicide + self-inflicted injury by other means than hang/strangle/suffocate
<b>TK3z.00</b>	Suicide + self-inflicted injury by hang/strangle/suffocate not otherwise specified
<b>TK4.00</b>	Suicide and self-inflicted injury by drowning
<b>TK5.00</b>	Suicide and self-inflicted injury by firearms and explosives
<b>TK51.00</b>	Suicide and self-inflicted injury by shotgun
<b>TK52.00</b>	Suicide and self-inflicted injury by hunting rifle
<b>TK54.00</b>	Suicide and self-inflicted injury by other firearm
<b>TK5z.00</b>	Suicide and self-inflicted injury by firearms/explosives not otherwise specified
<b>TK6.00</b>	Suicide and self-inflicted injury by cutting and stabbing
<b>TK60.00</b>	Suicide and self-inflicted injury by cutting
<b>TK60100</b>	Self-inflicted lacerations to wrist
<b>TK60111</b>	Slashed wrists self-inflicted
<b>TK61.00</b>	Suicide and self-inflicted injury by stabbing
<b>TK6z.00</b>	Suicide and self-inflicted injury by cutting and stabbing not otherwise specified
<b>TK7.00</b>	Suicide and self-inflicted injury by jumping from high place
<b>TK70.00</b>	Suicide + self-inflicted injury " jump from residential premises
<b>TK71.00</b>	Suicide + self-inflicted injury " jump from other manmade structure
<b>TK72.00</b>	Suicide + self-inflicted injury " jump from natural sites
<b>TK7z.00</b>	Suicide + self-inflicted injury " jump from high place not otherwise specified
<b>TKx.00</b>	Suicide and self-inflicted injury by other means
<b>TKx0.00</b>	Suicide + self-inflicted injury " jump/lie before moving object
<b>TKx0000</b>	Suicide + self-inflicted injury " jumping before moving object
<b>TKx1.00</b>	Suicide and self-inflicted injury by burns or fire
<b>TKx2.00</b>	Suicide and self-inflicted injury by scald
<b>TKx3.00</b>	Suicide and self-inflicted injury by extremes of cold

<b>TKx4.00</b>	Suicide and self-inflicted injury by electrocution
<b>TKx5.00</b>	Suicide and self-inflicted injury by crashing motor vehicle
<b>TKx6.00</b>	Suicide and self-inflicted injury by crashing of aircraft
<b>TKx7.00</b>	Suicide and self-inflicted injury caustic substance
<b>TKxy.00</b>	Suicide and self-inflicted injury by other specified means
<b>TKxz.00</b>	Suicide and self-inflicted injury by other means not otherwise specified
<b>TKy.00</b>	Late effects of self-inflicted injury
<b>TKz.00</b>	Suicide and self-inflicted injury not otherwise specified
<b>U2..00</b>	[X]Intentional self-harm
<b>U2..11</b>	[X]Self-inflicted injury
<b>U2..12</b>	[X]Injury " self-inflicted
<b>U2..13</b>	[X]Suicide
<b>U2..14</b>	[X]Attempted suicide
<b>U2..15</b>	[X]Para-suicide
<b>U20.00</b>	[X]Intentional self-poisoning/exposure to noxious substances
<b>U20.11</b>	[X]Deliberate drug overdose/other poisoning
<b>U200.00</b>	[X]Intentional self-poisoning/exposure to non-opioid analgesic
<b>U200.11</b>	[X]Overdose " paracetamol
<b>U200.12</b>	[X]Overdose " ibuprofen
<b>U200.13</b>	[X]Overdose " aspirin
<b>U200000</b>	[X]Intentional self-poisoning/exposure to non-opioid analgesic at home
<b>U200100</b>	[X]Intentional self-poisoning non-opioid analgesic at residential institution
<b>U200400</b>	[X]Intentional self-poisoning non-opioid analgesic in street/highway
<b>U200500</b>	[X]Intentional self-poisoning non-opioid analgesic trade/service area
<b>U200y00</b>	[X]Intentional self-poisoning non-opioid analgesic other specified place
<b>U200z00</b>	[X]Intentional self-poisoning non-opioid analgesic unspecified place
<b>U201.00</b>	[X]Intentional self-poisoning/exposure to antiepileptic
<b>U201000</b>	[X]Intentional self-poisoning/exposure to antiepileptic at home
<b>U201z00</b>	[X]Intentional self-poisoning antiepileptic unspecified place
<b>U202.00</b>	[X]Intentional self-poisoning/exposure to sedative hypnotic
<b>U202.11</b>	[X]Overdose " sleeping tablets
<b>U202.12</b>	[X]Overdose " diazepam
<b>U202.13</b>	[X]Overdose " temazepam
<b>U202.15</b>	[X]Overdose " nitrazepam
<b>U202.16</b>	[X]Overdose " benzodiazepine
<b>U202.17</b>	[X]Overdose " barbiturate
<b>U202.18</b>	[X]Overdose " amobarbital
<b>U202000</b>	[X]Intentional self-poisoning /exposure to sedative hypnotic at home
<b>U202400</b>	[X]Intentional self-poisoning sedative hypnotic in street/highway
<b>U202y00</b>	[X]Intentional self-poisoning sedative hypnotic other specified place
<b>U202z00</b>	[X]Intentional self-poisoning sedative hypnotic unspecified place
<b>U204.00</b>	[X]Intentional self-poisoning/exposure to psychotropic drug
<b>U204.11</b>	[X]Overdose " antidepressant

<b>U204.12</b>	[X]Overdose " amitriptyline
<b>U204.13</b>	[X]Overdose " SSRI
<b>U204000</b>	[X]Intentional self-poisoning /exposure to psychotropic drug at home
<b>U204100</b>	[X]Intentional self-poisoning psychotropic drug at residential institution
<b>U204y00</b>	[X]Intentional self-poisoning psychotropic drug other specified place
<b>U204z00</b>	[X]Intentional self-poisoning psychotropic drug unspecified place
<b>U205000</b>	[X]Intentional self-poisoning/exposure to narcotic drug at home
<b>U205y00</b>	[X]Intentional self-poisoning narcotic drug other specified place
<b>U205z00</b>	[X]Intentional self-poisoning narcotic drug unspecified place
<b>U206.00</b>	[X]Intentional self-poisoning/exposure to hallucinogen
<b>U206400</b>	[X]Intentional self-poisoning hallucinogen in street/highway
<b>U207.00</b>	[X]Intentional self-poisoning/exposure to other autonomic drug
<b>U207000</b>	[X]Intentional self-poisoning/exposure to other autonomic drug at home
<b>U207z00</b>	[X]Intentional self-poisoning other autonomic drug unspecified place
<b>U208.00</b>	[X]Intentional self-poisoning/exposure to other/unspecified drug/ medicament
<b>U208400</b>	[X]Intentional self-poisoning other/unspecified drug/medication in street/highway
<b>U208y00</b>	[X]Intentional self-poisoning other/unspecified drug/medication other specified place
<b>U208z00</b>	[X]Intentional self-poisoning other/unspecified drug/medication unspecified place
<b>U20A.00</b>	[X]Intentional self-poisoning organic solvent
<b>U20A.11</b>	[X]Self-poisoning from glue solvent
<b>U20A000</b>	"[X]Intentional self-poisoning organic solvent
<b>U20A400</b>	"[X]Intentional self-poisoning organic solvent
<b>U20Az00</b>	"[X]Intentional self-poisoning organic solvent
<b>U20B.00</b>	[X]Intentional self-poisoning/exposure to other gas/vapour U20B.11 [X]Self carbon monoxide poisoning
<b>U20B000</b>	[X]Intentional self-poisoning/exposure to other gas/vapour at home
<b>U20B200</b>	[X]Intentional self-poisoning other gas/vapour school/public admin area
<b>U20By00</b>	[X]Intentional self-poisoning other gas/vapour other specified place
<b>U20Bz00</b>	[X]Intentional self-poisoning other gas/vapour unspecified place
<b>U20C.00</b>	[X]Intentional self-poisoning/exposure to pesticide
<b>U20C.11</b>	[X]Self-poisoning with weedkiller
<b>U20C.12</b>	[X]Self-poisoning with paraquat
<b>U20C000</b>	[X]Intentional self-poisoning/exposure to pesticide at home
<b>U20Cy00</b>	[X]Intentional self-poisoning pesticide other specified place
<b>U20y.00</b>	[X]Intentional self-poisoning/exposure to unspecified chemical
<b>U20y000</b>	[X]Intentional self-poisoning/exposure to unspecified chemical at home
<b>U20y200</b>	[X]Intentional self-poisoning unspecified chemical school/public admin area
<b>U20yz00</b>	[X]Intentional self-poisoning unspecified chemical unspecified place
<b>U21.00</b>	[X]Intentional self-harm by hanging/strangulation/suffocation
<b>U210.00</b>	[X]Intentional self-harm by hanging/strangulation/suffocation at home

<b>U211.00</b>	[X]Intentional self-harm by hanging/strangulation/suffocation occurrence at residential institution
<b>U21y.00</b>	[X]Intentional self-harm by hanging/strangulation/suffocation other specified place
<b>U21z.00</b>	[X]Intentional self-harm by hanging/strangulation/suffocation unspecified place
<b>U22.00</b>	[X]Intentional self-harm by drowning and submersion
<b>U221.0</b>	[X]Intentional self-harm by drowning/submersion occurrence at residential institution
<b>U22y.00</b>	[X]Intentional self-harm by drowning/submersion occurrence at other specified place
<b>U22z.00</b>	[X]Intentional self-harm by drowning/submersion occurrence at unspecified place
<b>U24.00</b>	[X]Intentional self-harm by rifle shotgun/larger firearm discharge
<b>U241.00</b>	[X]Intentional self-harm by rifle shotgun/larger firearm discharge occurrence at residential institution
<b>U242.00</b>	[X]Intentional self-harm by rifle shotgun/larger firearm discharge in school/public admin area
<b>U25.00</b>	[X]Intentional self-harm by other/unspecified firearm discharge
<b>U250.00</b>	[X]Intentional self-harm other/unspecif firearm discharge occurrence at home
<b>U26.00</b>	[X]Intentional self-harm by explosive material
<b>U27.00</b>	[X]Intentional self-harm by smoke
<b>U270.00</b>	[X]Intentional self-harm by smoke fire/flames occurrence at home
<b>U274.00</b>	[X]Intentional self-harm by smoke fire/flame occurrence in street/highway
<b>U27z.00</b>	[X]Intentional self-harm by smoke fire/flames occurrence in unspecified place
<b>U28.00</b>	[X]Intentional self-harm by steam hot vapours/hot objects
<b>U280.00</b>	[X]Intentional self-harm by steam hot vapours/hot objects occurrence at home
<b>U28z.00</b>	[X]Intentional self-harm by steam hot vapours/hot objects occurrence in unspecified place
<b>U29.00</b>	[X]Intentional self-harm by sharp object
<b>U290.00</b>	[X]Intentional self-harm by sharp object occurrence at home
<b>U291.00</b>	[X]Intentional self-harm by sharp object occurrence at residential institution
<b>U294.00</b>	[X]Intentional self-harm by sharp object occurrence in street/highway
<b>U29y.00</b>	[X]Intentional self-harm by sharp object occurrence at other specified place
<b>U29z.00</b>	[X]Intentional self-harm by sharp object occurrence at unspecified place
<b>U2A.00</b>	[X]Intentional self-harm by blunt object
<b>U2A0.00</b>	[X]Intentional self-harm by blunt object occurrence at home
<b>U2A1.00</b>	[X]Intentional self-harm by blunt object occurrence at residential institution
<b>U2A3.00</b>	[X]Intentional self-harm by blunt object occurrence at sports/athletic area
<b>U2B.00</b>	[X]Intentional self-harm by jumping from a high place
<b>U2B0.00</b>	[X]Intentional self-harm by jumping from high place occurrence at home
<b>U2B4.00</b>	[X]Intentional self-harm by jumping from high place occurring in street/highway
<b>U2B6.00</b>	[X]Intentional self-harm by jumping from high place industrial/construction area

<b>U2By.00</b>	[X]Intentional self-harm by jumping from high place occurrence other specified place
<b>U2Bz.0</b>	0
<b>U2C.00</b>	[X]Intentional self-harm by jumping/lying before moving object
<b>U2C1.00</b>	[X]Intentional self-harm by jumping/lying before moving object occurrence at residential institution
<b>U2C4.00</b>	[X]Intentional self-harm by jumping/lying before moving object occurrence in street/highway
<b>U2Cy.00</b>	[X]Intentional self-harm by jumping/lying before moving object occurrence other specified place
<b>U2D.00</b>	[X]Intentional self-harm by crashing of motor vehicle
<b>U2D0.00</b>	[X]Intentional self-harm by crashing of motor vehicle occurrence at home
<b>U2D4.00</b>	[X]Intentional self-harm by crashing of motor vehicle occurrence in street/highway
<b>U2D6.00</b>	[X]Intentional self-harm by crashing of motor vehicle occurrence industrial/construction area
<b>U2E.00</b>	<b>[X]Self-mutilation</b>
<b>U2y.00</b>	[X]Intentional self-harm by other specified means
<b>U2y0.00</b>	[X]Intentional self-harm by other specified means occurrence at home
<b>U2y1.00</b>	[X]Intentional self-harm by other specified means occurrence at residential institution
<b>U2yz.00</b>	[X]Intentional self-harm by other specif means occurrence at unspecified place
<b>U2z.00</b>	[X]Intentional self-harm by unspecified means
<b>U2z0.00</b>	[X]Intentional self-harm by unspecified means occurrence at home
<b>U2z2.00</b>	[X]Intentional self-harm by unspecified means occurrence school/institution/public administrative area
<b>U2zy.00</b>	[X]Intentional self-harm by unspecified means occurrence other specified place
<b>U2zz.00</b>	[X]Intentional self-harm by unspecified means occurrence at unspecified place
<b>U30.11</b>	[X]Deliberate drug poisoning
<b>U41.00</b>	[X]Hanging strangulation + suffocation undetermined intent
<b>U44.00</b>	[X]Rifle shotgun + larger firearm discharge undetermined intent
<b>U45.00</b>	[X]Other + unspecified firearm discharge undetermined intent
<b>U4B.00</b>	[X]Falling jumping/pushed from high place undetermine intent
<b>U4Bz.00</b>	[X]Fall jump/push from high place undetermine intent occurring at unspecified place
<b>U72.00</b>	[X]Sequelae of intentional self-harm assault + event of undetermined intent
<b>U720.00</b>	[X]Sequelae of intentional self-harm
<b>ZRLfC12</b>	Health of the Nation Outcome Scales item 2 “ nonaccidental self-injury
<b>ZX..00</b>	Self-harm
<b>ZX..11</b>	Self-damage
<b>ZX1.00</b>	Self-injurious behaviour
<b>ZX1.12</b>	SIB “ self-injurious behaviour
<b>ZX1.13</b>	Deliberate self-harm
<b>ZX11.00</b>	Biting self

<b>ZX11.11</b>	Bites self
<b>ZX12.00</b>	Burning self
<b>ZX13.00</b>	Cutting self
<b>ZX13.11</b>	Cuts self
<b>ZX15.00</b>	Drowning self
<b>ZX18.00</b>	Hanging self
<b>ZX19.00</b>	Hitting self
<b>ZX19100</b>	Punching self
<b>ZX19200</b>	Slapping self
<b>ZX1B.00</b>	Jumping from height
<b>ZX1B100</b>	Jumping from building
<b>ZX1B200</b>	Jumping from bridge
<b>ZX1B300</b>	Jumping from cliff
<b>ZX1C.00</b>	Nipping self
<b>ZX1E.00</b>	Pinching self
<b>ZX1G.00</b>	Scratches self
<b>ZX1H.00</b>	Self-asphyxiation
<b>ZX1H100</b>	Self-strangulation
<b>ZX1H200</b>	Self-suffocation
<b>ZX1I.00</b>	Self-scalding
<b>ZX1J.00</b>	Self-electrocution
<b>ZX1K.00</b>	Self-incineration
<b>ZX1K.11</b>	Setting fire to self
<b>ZX1K.12</b>	Setting self alight
<b>ZX1L.00</b>	Self-mutilation
<b>ZX1L100</b>	Self-mutilation of hands
<b>ZX1L200</b>	Self-mutilation of genitalia
<b>ZX1L300</b>	Self-mutilation of penis
<b>ZX1L600</b>	Self-mutilation of ears
<b>ZX1LD00</b>	[X]Self mutilation
<b>ZX1M.00</b>	Shooting self
<b>ZX1N.00</b>	Stabbing self
<b>ZX1Q.00</b>	Throwing self in front of train
<b>ZX1Q.11</b>	Jumping under train
<b>ZX1R.00</b>	Throwing self in front of vehicle
<b>ZX1S.00</b>	Throwing self onto floor
<b>ICD-10code</b>	<b>Description</b>
<b>X60</b>	Intentional self-poisoning by and exposure to nonopioid analgesics, antipyretics and antirheumatics
<b>X61</b>	Intentional self-poisoning by and exposure to antiepileptic, sedative-hypnotic, antiparkinsonism and psychotropic drugs, not elsewhere classified
<b>X62</b>	Intentional self-poisoning by and exposure to narcotics and psychodysleptics



	[hallucinogens], not elsewhere classified
<b>X63</b>	Intentional self-poisoning by and exposure to other drugs acting on the autonomic nervous system
<b>X64</b>	Intentional self-poisoning by and exposure to other and unspecified drugs, medicaments and biological substances
<b>X65</b>	Intentional self-poisoning by and exposure to alcohol
<b>X66</b>	Intentional self-poisoning by and exposure to organic solvents and halogenated hydrocarbons and their vapours
<b>X67</b>	Intentional self-poisoning by and exposure to other gases and vapours
<b>X68</b>	Intentional self-poisoning by and exposure to pesticides
<b>X69</b>	Intentional self-poisoning by and exposure to other and unspecified chemicals and noxious substances
<b>X70</b>	Intentional self-harm by hanging, strangulation and suffocation
<b>X71</b>	Intentional self-harm by drowning and submersion
<b>X72</b>	Intentional self-harm by handgun discharge
<b>X73</b>	Intentional self-harm by rifle, shotgun and larger firearm discharge
<b>X74</b>	Intentional self-harm by other and unspecified firearm discharge
<b>X75</b>	Intentional self-harm by explosive material
<b>X76</b>	Intentional self-harm by smoke, fire and flames
<b>X77</b>	Intentional self-harm by steam, hot vapours and hot objects
<b>X78</b>	Intentional self-harm by sharp object
<b>X79</b>	Intentional self-harm by blunt object
<b>X80</b>	Intentional self-harm by jumping from a high place
<b>X81</b>	Intentional self-harm by jumping or lying before moving object
<b>X82</b>	Intentional self-harm by crashing of motor vehicle
<b>X83</b>	Intentional self-harm by other specified means
<b>X84</b>	Intentional self-harm by unspecified means
<b>Y10</b>	Poisoning by and exposure to nonopioid analgesics, antipyretics and antirheumatics, undetermined intent
<b>Y11</b>	Poisoning by and exposure to antiepileptic, sedative-hypnotic, antiparkinsonism and psychotropic drugs, not elsewhere classified, undetermined intent
<b>Y12</b>	Poisoning by and exposure to narcotics and psychodysleptics [hallucinogens], not elsewhere classified, undetermined intent
<b>Y13</b>	Poisoning by and exposure to other drugs acting on the autonomic nervous system, undetermined intent
<b>Y14</b>	Poisoning by and exposure to other and unspecified drugs, medicaments and biological substances, undetermined intent
<b>Y15</b>	Poisoning by and exposure to alcohol, undetermined intent
<b>Y16</b>	Poisoning by and exposure to organic solvents and halogenated hydrocarbons and their vapours, undetermined intent
<b>Y17</b>	Poisoning by and exposure to other gases and vapours, undetermined intent
<b>Y18</b>	Poisoning by and exposure to pesticides, undetermined intent
<b>Y19</b>	Poisoning by and exposure to other and unspecified chemicals and noxious substances, undetermined intent
<b>Y20</b>	Hanging, strangulation and suffocation, undetermined intent

<b>Y21</b>	Drowning and submersion, undetermined intent
<b>Y22</b>	Handgun discharge, undetermined intent
<b>Y23</b>	Rifle, shotgun and larger firearm discharge, undetermined intent
<b>Y24</b>	Other and unspecified firearm discharge, undetermined intent
<b>Y25</b>	Contact with explosive material, undetermined intent
<b>Y26</b>	Exposure to smoke, fire and flames, undetermined intent
<b>Y27</b>	Contact with steam, hot vapours and hot objects, undetermined intent
<b>Y28</b>	Contact with sharp object, undetermined intent
<b>Y29</b>	Contact with blunt object, undetermined intent
<b>Y30</b>	Falling, jumping or pushed from a high place, undetermined intent
<b>Y31</b>	Falling, lying or running before or into moving object, undetermined intent
<b>Y32</b>	Crashing of motor vehicle, undetermined intent
<b>Y33</b>	Other specified events, undetermined intent
<b>Y34</b>	Unspecified event, undetermined intent

### Appendix C. Covariates Forced into the High Density Propensity Score

<b>All covariates assessed in the 365 days prior to study index date</b>
Age at index date
Alcohol Abuse [Never, Former, Current, Unknown]
BMI
Duration of treated diabetes [time between first oral antidiabetic drug and study index date]
History of: Cirrhosis Congestive heart failure Hypertension Hyperlipidemia Ischemic heart disease Peripheral heart disease
Number of hospitalizations
Most recent HbA1c value to index date
Number of distinct prescription drugs
Prior use of benzodiazepines or other hypnotics, antipsychotics, levothyroxine or triiodothyronine, anticonvulsants, or mood stabilizers
Sex
Smoking status [Never, Former, Current, Unknown]
Socioeconomic status [quintiles of Index of Multiple Deprivation]
Use of other antidiabetic agents
Year of cohort entry

**Appendix D. Measures of frequency and association for depression among DPP-4 inhibitor and GLP-1 receptor agonist cohorts**

	<b>DPP4i</b>	<b>SU</b>	<b>GLP1ra</b>	<b>SU</b>
<b>Number of patients</b>	6207	22218	502	16728
<b>Person-years follow-up</b>	5591	18683	549	13628
<b>Number of events</b>	45	215	10	182
<b>Incidence per 1000 person-years (95%CI)</b>	8.0 (6.0-10.8)	11.5 (10.1-13.2)	18.2 (10-33.5)	13.4 (11.6-15.4)
<b>Crude Hazard Ratio (95% CI)</b>	0.70 (0.50-0.96)	-ref-	1.39 (0.74-2.63)	-ref-
<b>Adjusted Hazard Ratio (95% CI)</b>	0.81 (0.57-1.14)	-ref-	1.22 (0.61-2.42)	-ref-

**S = suppressed due to low number of events**

**Appendix E. Measures of frequency and association for self-harm among DPP-4 inhibitor and GLP-1 receptor agonist cohorts**

	<b>DPP4i</b>	<b>SU</b>	<b>GLP1ra</b>	<b>SU</b>
<b>Number of patients</b>	6211	22180	502	16632
<b>Person-years follow-up</b>	5632	18839	563	13696
<b>Number of events</b>	S	5	S	S
<b>Incidence per 1000 person-years (95%CI)</b>	S	0.3 (0.1-0.6)	S	S
<b>Crude Hazard Ratio (95% CI)</b>	0.66 (0.08-5.69)	-ref-	S	-ref-
<b>Adjusted Hazard Ratio (95% CI)</b>	0.77 (0.07-8.21)	-ref-	S	-ref-

**S = suppressed due to low number of events**

**Appendix F. Measures of frequency and association for depression or self-harm among DPP-4 inhibitor and GLP-1 receptor agonist cohorts when patients are matched 1:1 by propensity score.**

	<b>DPP4i</b>	<b>SU</b>	<b>GLP1ra</b>	<b>SU</b>
<b>Number of patients</b>	6008	6008	488	488
<b>Person-years follow-up</b>	548	4488	529	349
<b>Number of events</b>	44	49	10	7
<b>Incidence per 1000 person-years (95%CI)</b>	8.0 (6-10.8)	10.9 (8.3-14.4)	18.9 (10.4-34.8)	20.1 (9.9-41.3)
<b>Crude Hazard Ratio (95% CI)</b>	0.75 (0.50-1.13)	-ref-	0.99 (0.37-2.61)	-ref-
<b>Adjusted Hazard Ratio (95% CI)</b>	0.77 (0.51-1.16)	-ref-	0.98 (0.36-2.61)	-ref-

**Appendix G. Measures of frequency and association for depression or self-harm among DPP-4 inhibitor and GLP-1 receptor agonist cohorts when patients are adjusted for pattern of glucose-lowering therapy.**

	<b>DPP4i</b>	<b>SU</b>	<b>GLP1RA</b>	<b>SU</b>
<b>Number of patients</b>	4416	15943	117	4165
<b>Person-years follow-up</b>	3743	12614	90	3327
<b>Number of events</b>	36	140	S	61
<b>Incidence per 1000 person-years (95%CI)</b>	9.6 (7-13.3)	11.1 (9.4-13.1)	33.4 (12.1-97.5)	18.3 (14.3-23.6)
<b>Crude Hazard Ratio (95% CI)</b>	0.86 (0.60-1.24)	-ref-	1.82 (0.57-5.80)	-ref-
<b>Adjusted Hazard Ratio (95% CI)</b>	1.00 (0.66-1.49)	-ref-	1.55 (0.46-5.18)	-ref-

**S = suppressed due to low number of events**

**Appendix H. Measures of frequency and association for depression or self-harm among DPP-4 inhibitor and GLP-1 receptor agonist cohorts when patients are restricted to only those with HES/ONS linked data.**

	<b>DPP4i</b>	<b>SU</b>	<b>GLP1ra</b>	<b>SU</b>
<b>Number of patients</b>	3348	13243	262	9997
<b>Person-years follow-up</b>	2841	10762	290	7904
<b>Number of events</b>	27	132	S	111
<b>Incidence per 1000 person-years (95%CI)</b>	9.5 (6.5-13.8)	12.3 (10.3-14.5)	13.8 (5.6-35.3)	14 (11.7-16.9)
<b>Crude Hazard Ratio (95% CI)</b>	0.78 (0.51-1.17)	-ref-	1.00 (0.37-2.72)	-ref-
<b>Adjusted Hazard Ratio (95% CI)</b>	0.99 (0.63-1.55)	-ref-	0.93 (0.32-2.71)	-ref-

**Appendix I. Measures of frequency and association for depression or self-harm among DPP-4 inhibitor and GLP-1 receptor agonist cohorts when patients are restricted to second-line therapy after metformin monotherapy.**

	<b>DPP4i</b>	<b>SU</b>	<b>GLP1ra</b>	<b>SU</b>
<b>Number of patients</b>	1255	4612	65	2112
<b>Person-years follow-up</b>	1191	3601	47	1680
<b>Number of events</b>	11	48	S	29
<b>Incidence per 1000 person-years (95%CI)</b>	9.2 (5.2-16.5)	13.3 (10.1-17.7)	43(13.3-155.3)	17.3 (12-24.8)
<b>Crude Hazard Ratio (95% CI)</b>	0.71 (0.37-1.38)	-ref-	2.49(0.59-10.45)	-ref-
<b>Adjusted Hazard Ratio (95% CI)</b>	0.67 (0.34-1.34)	-ref-	1.92(0.44-8.31)	-ref-

**S = suppressed due to low number of events**

**Appendix J. Measures of frequency and association for depression or self-harm among DPP-4 inhibitor and GLP-1 receptor agonist cohorts when BMI categories (in addition to hdps deciles) were added to the Cox proportional regression model.**

	DPP4i	SU	GLP1ra	SU
Number of patients	6206	22128	501	16409
Person-years follow-up	5589	18596	549	13418
Number of events	46	218	10	183
Incidence per 1000 person-years (95%CI)	8.2 (6.2-11)	11.7 (10.3-13.4)	18.2 (10-33.5)	13.6 (11.8-15.8)
Crude Hazard Ratio (95% CI)	0.70 (0.51-0.96)	-ref-	1.36 (0.72-2.58)	-ref-
Adjusted Hazard Ratio (95% CI)	0.81 (0.58-1.15)	-ref-	1.25 (0.63-2.51)	-ref-

S = suppressed due to low number of events

**Appendix K. Time-dependent Cox regression for DPP-4 inhibitor monotherapy and combination therapies Vs. Sulfonylurea (SU) monotherapy**

Exposure vs. SU monotherapy	Coef	*Adjusted HR	Lower .95	Upper .95	Se (coef)	Pr (> z )
DPP-4i monotherapy	-0.07	0.93	0.65	1.32	0.18	0.69
DPP-4i/SU	-0.53	0.59	0.34	1.02	0.28	0.06
DPP-4i/Other	-0.16	0.85	0.70	1.04	0.10	0.11
DPP-4i/SU/Other	-0.13	0.88	0.68	1.14	0.13	0.33

\*Adjusted for deciles of hdps

**Appendix L. Time-dependent Cox regression for GLP-1 receptor agonist (GLP1ra) monotherapy and combination therapies Vs. Sulfonylurea (SU) monotherapy**

Exposure vs. SU monotherapy	Coef	*Adjusted HR	Lower .95	Upper .95	Se (coef)	Pr (> z )
GLP1ra monotherapy	-0.51	0.60	0.30	1.21	0.36	0.15
GLP1ra /SU	0.45	1.57	0.78	3.18	0.36	0.21
GLP1ra /Other	0.14	1.16	0.88	1.52	0.14	0.31
GLP1ra /SU/Other	-0.31	0.73	0.47	1.15	0.23	0.18

\*Adjusted for deciles of hdps