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| **Suicide Attempt Coding Rules** |
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| **Contents**   * **Definition of Suicide Attempt** * **Important Note Before Coding** * **Classification / Coding Rules** * **Text Mining Algorithm** |
| **Definition of Suicide Attempt**  **Definition of Suicide Attempt from Centre for Disease Control and Prevention** |
| **A non-fatal, self-directed, potentially injurious behavior with an intent to die as a result of the behavior; might not result in injury.** |
| [**http://www.cdc.gov/violenceprevention/suicide/definitions.html**](http://www.cdc.gov/violenceprevention/suicide/definitions.html) |
| **Definition of Suicide Attempt from ICD 10 online (Intentional self-harm: X60 –X84)** |
| **X60 - Intentional self-poisoning by and exposure to non-opioid analgesics, antipyretics and anti-rheumatics** |
| **X61 - Intentional self-poisoning by and exposure to antiepileptic, sedative-hypnotic, antiparkinsonism and psychotropic drugs, not elsewhere classified** |
| **X62 - Intentional self-poisoning by and exposure to narcotics and psychodysleptics [hallucinogens], not elsewhere classified** |
| **X63 - Intentional self-poisoning by and exposure to other drugs acting on the autonomic nervous system** |
| **X64 - Intentional self-poisoning by and exposure to other and unspecified drugs, medicaments and biological substances** |
| **X65 - Intentional self-poisoning by and exposure to alcohol** |
| **X66 - Intentional self-poisoning by and exposure to organic solvents and halogenated hydrocarbons and their vapours** |
| **X67 - Intentional self-poisoning by and exposure to other gases and vapours** |
| **X68 - Intentional self-poisoning by and exposure to pesticides** |
| **X69 - Intentional self-poisoning by and exposure to other and unspecified chemicals and noxious substances** |
| **X70 - Intentional self-harm by hanging, strangulation and suffocation** |
| **X71 - Intentional self-harm by drowning and submersion** |
| **X72 - Intentional self-harm by handgun discharge** |
| **X73 - Intentional self-harm by rifle, shotgun and larger firearm discharge** |
| **X74 - Intentional self-harm by other and unspecified firearm discharge** |
| **X75 - Intentional self-harm by explosive material** |
| **X76 - Intentional self-harm by smoke, fire and flame**  **X77 - Intentional self-harm by steam, hot vapours and hot objects** |
| **X78 - Intentional self-harm by sharp object** |
| **X79 - Intentional self-harm by blunt object** |
| **X80 - Intentional self-harm by jumping from a high place** |
| **X81 - Intentional self-harm by jumping or lying before moving object** |
| **X82 - Intentional self-harm by crashing of motor vehicle** |
| **X83 - Intentional self-harm by other specified means** |
| **X84 - Intentional self-harm by unspecified means** |
| <http://apps.who.int/classifications/apps/icd/icd10online2003/fr-icd.htm?gx60.htm>+ |
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| **Important Note Before Coding**  Any mention where the patient has undergone/experience intentional harm to self (physical harmful action directed at self) should be counted as suicide attempt. Literal mentions of "self-harm" are ignored because of danger of over-including DSH events which are different to a suicide attempt. |
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| **Classification / Coding Rules** |
| **Rules to follow when coding Suicide Attempt in CRIS notes** |
| Code Suicide attempt as **positive** if it meets the description of a Suicide attempt (See “Definition of a Suicide Attempt” above) |
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| Code Suicide attempt as **negative** if patient or clinical staff are denying or negating the suicide attempt (e.g. *“she never attempted suicide”*) |
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| Code Suicide attempt as **negative** if patient or clinical staff are referring to family member who attempted suicide (e.g. *“mum attempted suicide”*) |
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| Code Suicide attempt as **negative** where mention of suicide attempt is irrelevant (e.g. *“in theory suicide attempts are harsh*”) |
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| Code Suicide attempt as **negative** where mention of suicide attempt is confusing or uncomprehensive |
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| Coding Suicide attempt as **negative** where mention of suicide attempt a literal mention of "self-harm" |
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| **Text mining Algorithm** |
| ML algorithm uses keywords and codes from ICD-10, Literature, CRIS and clinical input to teach itself to code a suicide attempt. |
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| asphyxiat\* |
| (?i) to shoot herself |
| (?i) to shoot himself |
| (?i) to stab herself |
| (?i) to stab himself |
| (?i)after a suicide attempt |
| (?i)another attempt to end [^A-z] life |
| (?i)another attempt to end [A-z] life |
| (?i)another attempt to end life |
| (?i)another sucidal attempt |
| (?i)another sucide attempt |
| (?i)attempt on her life |
| (?i)attempt on his life |
| (?i)attempt to commit suicide |
| (?i)attempt to commit suicide |
| (?i)attempt to end her life |
| (?i)attempt to end his life |
| (?i)attempt to kill herself |
| (?i)attempt to kill himself |
| (?i)attempt to suicide |
| (?i)attempt to take her life |
| (?i)attempt to take his life |
| (?i)attempted to commit suicide |
| (?i)attempted to end her life |
| (?i)attempted to end his life |
| (?i)attempted to kill herself |
| (?i)attempted to kill himself |
| (?i)attempted to take her life |
| (?i)attempted to take his life |
| (?i)attempts [^A-z] [^A-z] [^A-z] suicide |
| (?i)attempts [^A-z] [^A-z] [A-z] suicide |
| (?i)attempts [^A-z] [^A-z] suicide |
| (?i)attempts [^A-z] [A-z] [^A-z] |
| (?i)attempts [^A-z] [A-z] suicide |
| (?i)attempts [^A-z] suicide |
| (?i)attempts [A-z] [^A-z] [^A-z] suicide |
| (?i)attempts [A-z] [^A-z] [A-z] suicide |
| (?i)attempts [A-z] [^A-z] suicide |
| (?i)attempts [A-z] [A-z] [A-z] suicide |
| (?i)attempts [A-z] [A-z] suicide |
| (?i)attempts [A-z] suicide |
| (?i)attempts suicide |
| (?i)depression with suicide attempt |
| (?i)E850 |
| (?i)E851 |
| (?i)E852 |
| (?i)E853 |
| (?i)E854 |
| (?i)E855 |
| (?i)E856 |
| (?i)E857 |
| (?i)E858 |
| (?i)E950 |
| (?i)E951 |
| (?i)E952 |
| (?i)E953 |
| (?i)E954 |
| (?i)E955 |
| (?i)E956 |
| (?i)E957 |
| (?i)E958 |
| (?i)E959 |
| (?i)E980 |
| (?i)E981 |
| (?i)E982 |
| (?i)E983 |
| (?i)E984 |
| (?i)E985 |
| (?i)E986 |
| (?i)E987 |
| (?i)E988 |
| (?i)E989 |
| (?i)failed suicidal attempt |
| (?i)failed suicide attempt |
| (?i)first attempt at her life |
| (?i)first attempt at his life |
| (?i)following a suicide attempt |
| (?i)following her suicidal attempt |
| (?i)following her suicide attempt |
| (?i)following his suicidal attempt |
| (?i)following his suicide attempt |
| (?i)he jumped off a bridge |
| (?i)his suicide attempt was not successful |
| (?i)history of suicide attempt |
| (?i)in an attempt to kill herself |
| (?i)in an attempt to kill himself |
| (?i)leapt in front of motor |
| (?i)leapt in front of moving |
| (?i)leapt in front of traffic |
| (?i)leapt in front of vehicle |
| (?i)next time he attempts suicide |
| (?i)next time she attempts suicide |
| (?i)previous [^A-z] attempt by |
| (?i)previous [^A-z] attempt to |
| (?i)previous [^A-z] attempt to take [^A-z] life |
| (?i)previous [^A-z] attempt to take [A-z] life |
| (?i)previous [^A-z] attempt to take life |
| (?i)previous [A-z] attempt by |
| (?i)previous [A-z] attempt to |
| (?i)previous [A-z] attempt to take [^A-z] life |
| (?i)previous [A-z] attempt to take [A-z] life |
| (?i)previous [A-z] attempt to take life |
| (?i)previous attempt by |
| (?i)previous attempt to |
| (?i)previous attempt to take [^A-z] life |
| (?i)previous attempt to take [A-z] life |
| (?i)previous attempt to take life |
| (?i)she jumped off a bridge |
| (?i)shot herself |
| (?i)shot himself |
| (?i)stabbed herself |
| (?i)stabbed himself |
| (?i)suicidal [^A-z] [^A-z] [^A-z] attempt |
| (?i)suicidal [^A-z] [^A-z] [A-z] attempt |
| (?i)suicidal [^A-z] [^A-z] attempt |
| (?i)suicidal [^A-z] [A-z] [^A-z] attempt |
| (?i)suicidal [^A-z] [A-z] attempt |
| (?i)suicidal [^A-z] attempt |
| (?i)suicidal [A-z] [^A-z] [^A-z] attempt |
| (?i)suicidal [A-z] [^A-z] [A-z] attempt |
| (?i)suicidal [A-z] [^A-z] attempt |
| (?i)suicidal [A-z] [A-z] [A-z] attempt |
| (?i)suicidal [A-z] [A-z] attempt |
| (?i)suicidal [A-z] attempt |
| (?i)suicidal attempt |
| (?i)suicidal attempt |
| (?i)suicidal attempt due to depression |
| (?i)suicidal attempt was not successful |
| (?i)suicidal behaviour |
| (?i)suicidal gesture |
| (?i)suicide [^A-z] [^A-z] [^A-z] attempt |
| (?i)suicide [^A-z] [^A-z] [A-z] attempt |
| (?i)suicide [^A-z] [^A-z] attempt |
| (?i)suicide [^A-z] [A-z] [^A-z] attempt |
| (?i)suicide [^A-z] [A-z] attempt |
| (?i)suicide [^A-z] attempt |
| (?i)suicide [A-z] [^A-z] [^A-z] attempt |
| (?i)suicide [A-z] [^A-z] [A-z] attempt |
| (?i)suicide [A-z] [^A-z] attempt |
| (?i)suicide [A-z] [A-z] [A-z] attempt |
| (?i)suicide [A-z] [A-z] attempt |
| (?i)suicide [A-z] attempt |
| (?i)suicide attempt |
| (?i)suicide attempt age |
| (?i)suicide attempt due to depression |
| (?i)suicide attempt failed |
| (?i)suicide attempt was not successful |
| (?i)suicide behaviour |
| (?i)suicide behaviour |
| (?i)suicide gesture |
| (?i)took firearm to self |
| (?i)took gun to self |
| (?i)took handgun to self |
| (?i)took knife to self |
| (?i)took rifle to self |
| (?i)tried to end her life |
| (?i)tried to end his life |
| (?i)tried to kill herself |
| (?i)tried to kill himself |
| (?i)tried to take her life |
| (?i)tried to take his life |
| (?i)walked in front of cars |
| (?i)walked in front of motor |
| (?i)walked in front of moving |
| (?i)walked in front of traffic |
| (?i)walked in front of vehicles |
| (?i)X60 |
| (?i)X61 |
| (?i)X62 |
| (?i)X63 |
| (?i)X64 |
| (?i)X65 |
| (?i)X66 |
| (?i)X67 |
| (?i)X68 |
| (?i)X69 |
| (?i)X70 |
| (?i)X71 |
| (?i)X72 |
| (?i)X73 |
| (?i)X74 |
| (?i)X75 |
| (?i)X76 |
| (?i)X77 |
| (?i)X78 |
| (?i)X79 |
| (?i)X80 |
| (?i)X81 |
| (?i)X82 |
| (?i)X83 |
| (?i)X84 |
| (?i)Y87.0 |
| (?i)Z72.8 |
| (?i)Z91.5 |
| (?i)crash\* |
| (?i)cutting her wrist |
| (?i)cutting his wrist |
| drown\* |
| firearm\* |
| handgun |
| hang\* |
| impulsive O/d |
| ingested\* |
| jumped off |
| overdose |
| overdosing |
| poison\* |
| putting plastic bag over her head |
| putting plastic bag over his head |
| stabbing himself |
| stabbing herself |
| attempted to hang himself |
| attempted to hang herself |
| started to cut |
| starting to cut |
| strangl\* |
| strangul\* |
| submerg\* |
| suffocate herself |
| suffocate himself |
| suffocated herself |
| suffocated himself |
| taken an O/D |
| taken an OD |
| took [8 - 100] tablets |
| took an OD |
| took O/D |
| tried to cut |
| walked into traffic |
| wrist cutting |