CSR Naloxone Standing Order Project - Data Cleaning, Wrangling, and Exporation (eventually)

STAT 245, Fall 2020 (Group Members: Nana Ama Baidoo, Alex Visser, Joshua Ridder, Joseph Jinn)

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Note to self: Run "remotes::install github('ProjectMOSAIC/ggformula')" to install development version of ggformula.

```
# sessionInfo()

vssr <- read_csv("datasets\\VSRR_Provisional_Drug_Overdose_Death_Counts.csv")

glimpse(vssr)</pre>
```

Another dataset to compare agains for our results with CDC Wonder aggregated data statistics.

```
## $ Month
                                     <chr> "April", "April", "April", "April", ...
## $ Period
                                     <chr> "12 month-ending", "12 month-ending...
## $ Indicator
                                      <chr> "Percent with drugs specified", "Na...
## $ `Data Value`
                                      <dbl> 88.09524, NA, NA, NA, 126.00000, NA...
## $ 'Percent Complete'
                                      <dbl> 100, 100, 100, 100, 100, 100, 100, ...
## $ `Percent Pending Investigation` <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ...
## $ `State Name`
                                      <chr> "Alaska", "Alaska", "Alaska", "Alas...
## $ Footnote
                                     <chr> "Numbers may differ from published ...
                                     <chr> "**", "**", "**", "**", "**", "**", ...
## $ `Footnote Symbol`
## $ `Predicted Value`
                                     <dbl> NA, NA, NA, NA, 126, NA, NA, NA, NA...
```

summary(vssr)

```
State
                            Year
                                         Month
                                                             Period
   Length: 34398
                       Min.
                              :2015
                                      Length: 34398
                                                          Length: 34398
   Class : character
                       1st Qu.:2016
                                      Class :character
                                                          Class : character
    Mode :character
                       Median:2017
                                      Mode :character
                                                          Mode :character
                       Mean
                              :2017
                       3rd Qu.:2018
##
##
                       Max.
                              :2020
##
    Indicator
                         Data Value
                                           Percent Complete
##
   Length: 34398
                                                : 98.9
                       Min. :
                                    10.0
                                           Min.
    Class : character
                       1st Qu.:
                                    92.8
                                           1st Qu.:100.0
    Mode : character
                       Median :
                                   286.0
                                           Median:100.0
##
                       Mean
                             : 13497.1
                                           Mean :100.0
##
                       3rd Qu.:
                                  1024.0
                                           3rd Qu.:100.0
##
                       Max.
                              :2892170.0
                                           Max.
                                                   :100.0
                       NA's
                              :6510
                                           NA's
                                                   :96
##
   Percent Pending Investigation State Name
                                                        Footnote
   Min.
           :0.00000
                                  Length: 34398
                                                     Length: 34398
   1st Qu.:0.01772
                                  Class :character
                                                   Class :character
   Median : 0.04605
                                  Mode :character
                                                     Mode :character
   Mean
          :0.12086
   3rd Qu.:0.16124
   Max.
           :1.41157
##
   Footnote Symbol
                       Predicted Value
## Length:34398
                       Min. : 10.0
```

```
Class : character
                       1st Qu.: 71.0
   Mode :character
                       Median :203.0
##
                               :274.9
                       Mean
                       3rd Qu.:394.0
##
##
                       Max.
                               :999.0
##
                       NA's
                               :16808
head(vssr, 5)
## # A tibble: 5 x 12
    State Year Month Period Indicator `Data Value` `Percent Comple~
    <chr> <dbl> <chr> <chr> <chr>
                                                <dbl>
                                                                  <dbl>
## 1 AK
            2015 April 12 mo~ Percent ~
                                                 88.1
                                                                    100
## 2 AK
            2015 April 12 mo~ Natural,~
                                                                    100
                                                 NA
            2015 April 12 mo~ Natural ~
## 3 AK
                                                 NA
                                                                    100
## 4 AK
            2015 April 12 mo~ Psychost~
                                                 NA
                                                                    100
            2015 April 12 mo~ Number o~
## 5 AK
                                                126
                                                                    100
## # ... with 5 more variables: `Percent Pending Investigation` <dbl>, `State
      Name` <chr>, Footnote <chr>, `Footnote Symbol` <chr>, `Predicted
      Value` <dbl>
## #
```

Test that we can import CDC Wonder query files that have been converted to CSV manually. TODO: Learn how to import flat text files into R, parse them into a dataframe, and export back out as a CSV. Note: I know enough to do this in Python, but not R yet. Will need to loook into the tutorials on the course website.

```
## $ Race
                            <chr> "American Indian or Alaska Native", "Ameri...
## $ `Race Code`
                            <chr> "1002-5", "1002-5", "1002-5", "1002-5", "1...
## $ Year
                            <dbl> 1999, 2000, 2001, 2002, 2003, 2004, 2005, ...
## $ 'Year Code'
                            <dbl> 1999, 2000, 2001, 2002, 2003, 2004, 2005, ...
## $ Deaths
                            <dbl> 1566, 1660, 1728, 1739, 1904, 1869, 1963, ...
## $ Population
                            <dbl> 696733, 725867, 771337, 805848, 843939, 88...
## $ `Crude Rate`
                            <dbl> 224.8, 228.7, 224.0, 215.8, 225.6, 211.1, ...
head(agg1)
## # A tibble: 6 x 9
   `2013 Urbanizat~ `2013 Urbanizat~ Race `Race Code` Year `Year Code` Deaths
## <chr>
                              <dbl> <chr> <chr>
                                                     <dbl>
                                                                <dbl> <dbl>
## 1 Large Central M~
                                  1 Amer~ 1002-5
                                                      1999
                                                                 1999
                                                                       1566
## 2 Large Central M~
                                  1 Amer~ 1002-5
                                                      2000
                                                                 2000
                                                                      1660
## 3 Large Central M~
                                 1 Amer~ 1002-5
                                                      2001
                                                                 2001
                                                                       1728
## 4 Large Central M~
                                 1 Amer~ 1002-5
                                                      2002
                                                                 2002
                                                                       1739
## 5 Large Central M~
                                  1 Amer~ 1002-5
                                                                       1904
                                                      2003
                                                                 2003
## 6 Large Central M~
                                  1 Amer~ 1002-5
                                                      2004
                                                                 2004
                                                                       1869
## # ... with 2 more variables: Population <dbl>, `Crude Rate` <dbl>
```

agg2 <- read_csv("datasets\\Underlying_Cause_of_Death_1999-2018_2.csv")

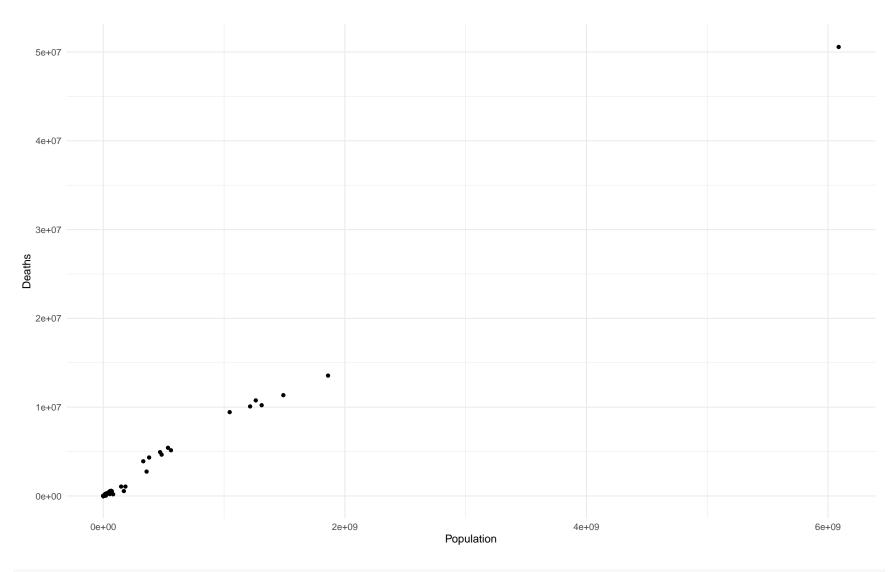
glimpse(agg2)

```
## # A tibble: 6 x 11
   State `State Code` County `County Code` `Drug/Alcohol I~ `Drug/Alcohol I~
   <chr>
                  <dbl> <chr>
                                       <dbl> <chr>
                                                               <chr>
## 1 Mich~
                     26 Alcon~
                                       26001 All other non-d~ 09
## 2 Mich~
                     26 Alcon~
                                       26001 All other non-d~ 09
## 3 Mich~
                     26 Alger~
                                       26003 All other non-d~ 09
## 4 Mich~
                     26 Alleg~
                                       26005 All other alcoh~ A9
## 5 Mich~
                     26 Alleg~
                                       26005 All other non-d~ 09
## 6 Mich~
                     26 Alleg~
                                       26005 All other non-d~ 09
## # ... with 5 more variables: `Cause of death` <chr>, `Cause of death
## # Code <chr>, Deaths <dbl>, Population <dbl>, `Crude Rate` <chr>
```

Looks like there's not initial issues with importing the CSV's we created from flat text file from the CDC Wonder data queries.

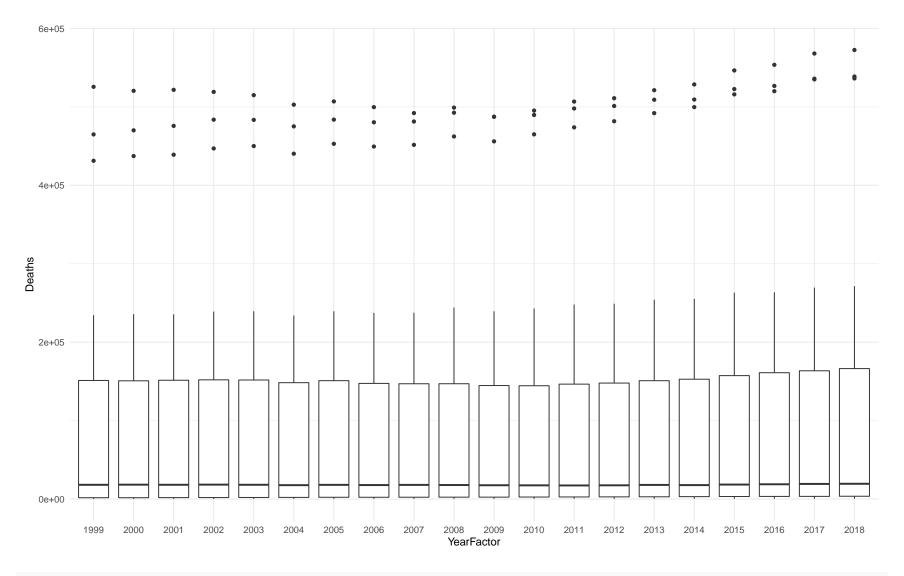
EDA Note: The goal of our service-learning project is to look through as many different combinations of aggregate statistics as possible to identify relevant trends and patterns. As such, there's no one "fixed" dataset we are working with, just experimentation with many different aggregate queries.

```
gf_point(Deaths ~ Population, data = agg1)
```

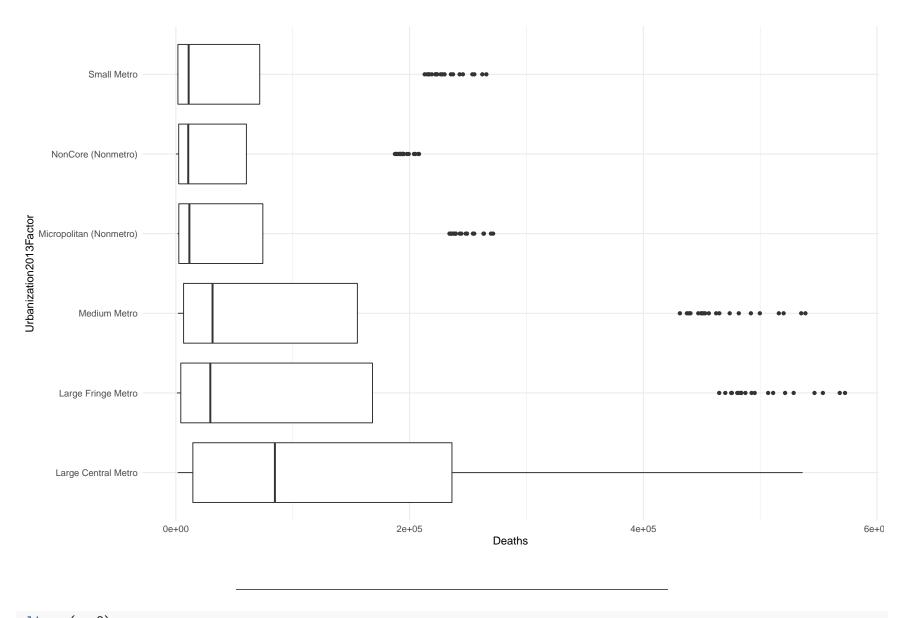


agg1_modified <- agg1 %>% mutate(YearFactor = factor(agg1\$Year), Urbanization2013Factor = factor(agg1\$^2013 Urbanization^))
glimpse(agg1_modified)

```
## Rows: 511
## Columns: 11
## $ `2013 Urbanization`
                            <chr> "Large Central Metro", "Large Central Metr...
## $ Race
                            <chr> "American Indian or Alaska Native", "Ameri...
## $ `Race Code`
                            <chr> "1002-5", "1002-5", "1002-5", "1002-5", "1...
## $ Year
                            <dbl> 1999, 2000, 2001, 2002, 2003, 2004, 2005, ...
## $ 'Year Code'
                            <dbl> 1999, 2000, 2001, 2002, 2003, 2004, 2005, ...
## $ Deaths
                            <dbl> 1566, 1660, 1728, 1739, 1904, 1869, 1963, ...
## $ Population
                            <dbl> 696733, 725867, 771337, 805848, 843939, 88...
## $ `Crude Rate`
                            <dbl> 224.8, 228.7, 224.0, 215.8, 225.6, 211.1, ...
## $ YearFactor
                           <fct> 1999, 2000, 2001, 2002, 2003, 2004, 2005, ...
## $ Urbanization2013Factor
                           <fct> Large Central Metro, Large Central Metro, ...
agg1_modified_noNAs <- drop_na(agg1_modified)</pre>
gf_boxplot(Deaths ~ YearFactor, data = agg1_modified_noNAs) #+ coord_flip()
```



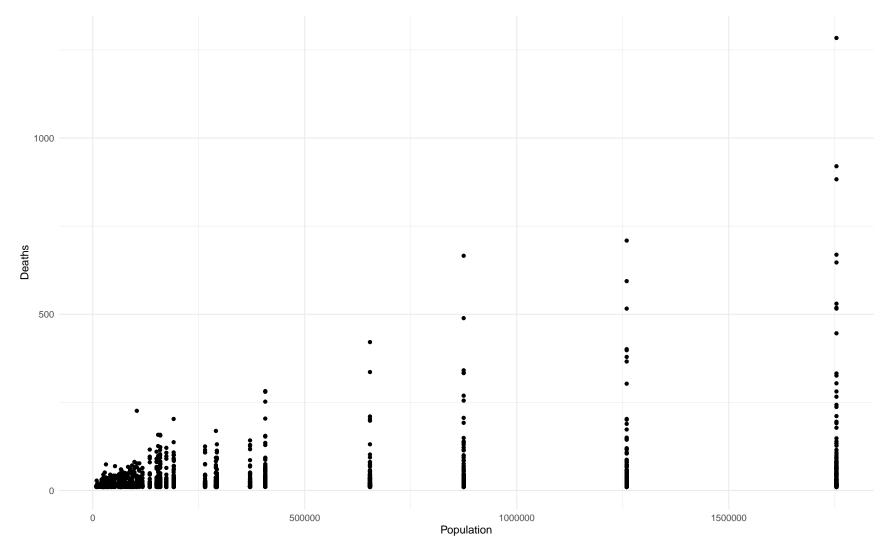
gf_boxplot(Deaths ~ Urbanization2013Factor, data = agg1_modified_noNAs) + coord_flip()



glimpse(agg2)

```
## Rows: 1,673
## Columns: 11
## $ State
                                       <chr> "Michigan", "Michigan", "Michigan...
## $ `State Code`
                                       <dbl> 26, 26, 26, 26, 26, 26, 26, 26, 2...
                                       <chr> "Alcona County, MI", "Alcona Coun...
## $ County
## $ `County Code`
                                       <dbl> 26001, 26001, 26003, 26005, 26005...
## $ `Drug/Alcohol Induced Cause`
                                       <chr> "All other non-drug and non-alcoh...
## $ `Drug/Alcohol Induced Cause Code` <chr> "09", "09", "09", "A9", "09", "09".
## $ `Cause of death`
                                       <chr> "Atherosclerotic heart disease", ...
## $ `Cause of death Code`
                                       <chr> "I25.1", "J44.9", "F03", "K70.3",...
## $ Deaths
                                       <dbl> 10, 18, 10, 12, 15, 12, 64, 11, 1...
## $ Population
                                       <dbl> 10362, 10362, 9097, 117327, 11732...
                                       <chr> "Unreliable", "Unreliable", "Unre...
## $ `Crude Rate`
```

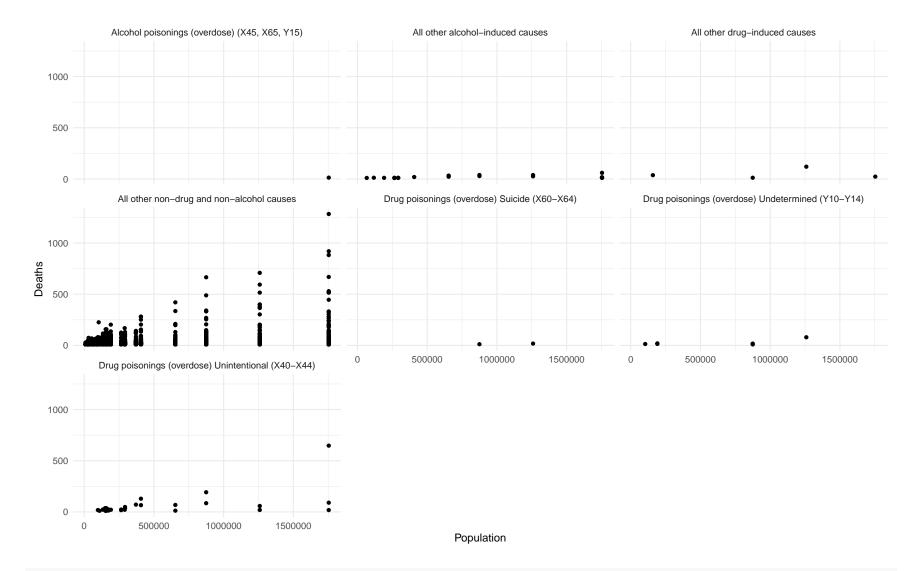
gf_point(Deaths ~ Population, data = agg2)



glimpse(agg2_modified)

```
## Rows: 1,673
## Columns: 14
## $ State
                                        <chr> "Michigan", "Michigan", "Michigan...
## $ `State Code`
                                        <dbl> 26, 26, 26, 26, 26, 26, 26, 26, 2...
## $ County
                                       <chr> "Alcona County, MI", "Alcona Coun...
                                        <dbl> 26001, 26001, 26003, 26005, 26005...
## $ `County Code`
## $ `Drug/Alcohol Induced Cause`
                                        <chr> "All other non-drug and non-alcoh...
## $ `Drug/Alcohol Induced Cause Code` <chr> "09", "09", "09", "A9", "09", "09".
## $ `Cause of death`
                                        <chr> "Atherosclerotic heart disease", ...
## $ `Cause of death Code`
                                        <chr> "I25.1", "J44.9", "F03", "K70.3",...
## $ Deaths
                                        <dbl> 10, 18, 10, 12, 15, 12, 64, 11, 1...
                                        <dbl> 10362, 10362, 9097, 117327, 11732...
## $ Population
                                        <chr> "Unreliable", "Unreliable", "Unre...
## $ `Crude Rate`
## $ CountyFactor
                                        <fct> "Alcona County, MI", "Alcona Coun...
## $ CauseOfDeathFactor
                                        <fct> "Atherosclerotic heart disease", ...
## $ DrugAlcoholInducedCauseFactor
                                        <fct> All other non-drug and non-alcoho...
agg1_modified_noNAs <- drop_na(agg1_modified)</pre>
```

gf point(Deaths ~ Population | DrugAlcoholInducedCauseFactor, data = agg2 modified)



unique(agg2_modified\$County)

```
## [1] "Alcona County, MI" "Alger County, MI"
## [3] "Allegan County, MI" "Alpena County, MI"
```

[5] "Antrim County, MI" "Arenac County, MI" [7] "Baraga County, MI" "Barry County, MI" [9] "Bay County, MI" "Benzie County, MI" ## [11] "Berrien County, MI" "Branch County, MI" ## [13] "Calhoun County, MI" "Cass County, MI" ## [15] "Charlevoix County, MI" "Cheboygan County, MI" ## [17] "Chippewa County, MI" "Clare County, MI" ## [19] "Clinton County, MI" "Crawford County, MI" ## [21] "Delta County, MI" "Dickinson County, MI" ## [23] "Eaton County, MI" "Emmet County, MI" ## [25] "Genesee County, MI" "Gladwin County, MI" ## [27] "Gogebic County, MI" "Grand Traverse County, MI" ## [29] "Gratiot County, MI" "Hillsdale County, MI" ## [31] "Houghton County, MI" "Huron County, MI" ## [33] "Ingham County, MI" "Ionia County, MI" ## [35] "Iosco County, MI" "Iron County, MI" ## [37] "Isabella County, MI" "Jackson County, MI" ## [39] "Kalamazoo County, MI" "Kalkaska County, MI" ## [41] "Kent County, MI" "Lake County, MI" "Leelanau County, MI" ## [43] "Lapeer County, MI" ## [45] "Lenawee County, MI" "Livingston County, MI" ## [47] "Mackinac County, MI" "Macomb County, MI" ## [49] "Manistee County, MI" "Marquette County, MI" ## [51] "Mason County, MI" "Mecosta County, MI" ## [53] "Menominee County, MI" "Midland County, MI" ## [55] "Missaukee County, MI" "Monroe County, MI" ## [57] "Montcalm County, MI" "Montmorency County, MI" ## [59] "Muskegon County, MI" "Newaygo County, MI" "Oceana County, MI" ## [61] "Oakland County, MI" ## [63] "Ogemaw County, MI" "Osceola County, MI" ## [65] "Oscoda County, MI" "Otsego County, MI" ## [67] "Ottawa County, MI" "Presque Isle County, MI" ## [69] "Roscommon County, MI" "Saginaw County, MI" ## [71] "St. Clair County, MI" "St. Joseph County, MI" ## [73] "Sanilac County, MI" "Schoolcraft County, MI" ## [75] "Shiawassee County, MI" "Tuscola County, MI" ## [77] "Van Buren County, MI" "Washtenaw County, MI" ## [79] "Wayne County, MI" "Wexford County, MI"

unique(agg2_modified\$CauseOfDeathFactor)

- ## [1] Atherosclerotic heart disease
- ## [2] Chronic obstructive pulmonary disease, unspecified
- ## [3] Unspecified dementia
- ## [4] Alcoholic cirrhosis of liver
- ## [5] Colon, unspecified Malignant neoplasms
- ## [6] Pancreas, unspecified Malignant neoplasms
- ## [7] Bronchus or lung, unspecified Malignant neoplasms
- ## [8] Malignant neoplasm of prostate
- ## [9] Non-insulin-dependent diabetes mellitus, without complications
- ## [10] Unspecified diabetes mellitus, without complications
- ## [11] Parkinson disease
- ## [12] Alzheimer disease, unspecified
- ## [13] Acute myocardial infarction, unspecified
- ## [14] Atherosclerotic cardiovascular disease, so described
- ## [15] Ischaemic cardiomyopathy
- ## [16] Congestive heart failure
- ## [17] Stroke, not specified as haemorrhage or infarction
- ## [18] Pneumonia, unspecified
- ## [19] Sequelae of other and unspecified cerebrovascular diseases
- ## [20] Malignant neoplasm without specification of site
- ## [21] Poisoning by and exposure to other and unspecified drugs, medicaments and biological substances, undetermined intent
- ## [22] Septicaemia, unspecified
- ## [23] Unspecified protein-energy malnutrition
- ## [24] Hypertensive heart disease with (congestive) heart failure
- ## [25] Cardiomyopathy, unspecified
- ## [26] Atrial fibrillation and flutter
- ## [27] Chronic kidney disease, stage 5
- ## [28] Unspecified fall
- ## [29] Accidental poisoning by and exposure to narcotics and psychodysleptics [hallucinogens], not elsewhere classified
- ## [30] Accidental poisoning by and exposure to other and unspecified drugs, medicaments and biological substances
- ## [31] Intrahepatic bile duct carcinoma Malignant neoplasms
- ## [32] Breast, unspecified Malignant neoplasms
- ## [33] Bladder, unspecified Malignant neoplasms
- ## [34] Multiple myeloma Malignant neoplasms
- ## [35] Hyperlipidaemia, unspecified
- ## [36] Vascular dementia, unspecified

- ## [37] Other secondary pulmonary hypertension
- ## [38] Aortic (valve) stenosis
- ## [39] Cardiovascular disease, unspecified
- ## [40] Cerebral infarction, unspecified
- ## [41] Other and unspecified cirrhosis of liver
- ## [42] Chronic renal failure, unspecified
- ## [43] Oesophagus, unspecified Malignant neoplasms
- ## [44] Senile degeneration of brain, not elsewhere classified
- ## [45] Anoxic brain damage, not elsewhere classified
- ## [46] Essential (primary) hypertension
- ## [47] Hypertensive heart disease without (congestive) heart failure
- ## [48] Acute subendocardial myocardial infarction
- ## [49] Chronic ischaemic heart disease, unspecified
- ## [50] Heart failure, unspecified
- ## [51] Cerebral atherosclerosis
- ## [52] Sequelae of stroke, not specified as haemorrhage or infarction
- ## [53] Pneumonitis due to food and vomit
- ## [54] Other fall on same level
- ## [55] Intentional self-harm by hanging, strangulation and suffocation
- ## [56] Intentional self-harm by other and unspecified firearm discharge
- ## [57] Heart disease, unspecified
- ## [58] Unspecified diabetes mellitus, with renal complications
- ## [59] Other interstitial pulmonary diseases with fibrosis
- ## [60] Stomach, unspecified Malignant neoplasms
- ## [61] Malignant neoplasm of rectum
- ## [62] Liver cell carcinoma Malignant neoplasms
- ## [63] Liver, unspecified Malignant neoplasms
- ## [64] Malignant melanoma of skin, unspecified Malignant neoplasms
- ## [65] Malignant neoplasm of uterus, part unspecified
- ## [66] Malignant neoplasm of ovary
- ## [67] Malignant neoplasm of kidney, except renal pelvis
- ## [68] Brain, unspecified Malignant neoplasms
- ## [69] Non-Hodgkin lymphoma, unspecified type
- ## [70] Malignant neoplasms of independent (primary) multiple sites
- ## [71] Myelodysplastic syndrome, unspecified Uncertain neoplasms
- ## [72] Non-insulin-dependent diabetes mellitus, with renal complications
- ## [73] Motor neuron disease
- ## [74] Degenerative disease of nervous system, unspecified
- ## [75] Hypertensive renal disease with renal failure

- ## [76] Hypertensive heart and renal disease with both (congestive) heart failure and renal failure
- ## [77] Pulmonary embolism without mention of acute cor pulmonale
- ## [78] Intracerebral haemorrhage, unspecified
- ## [79] Intracranial haemorrhage (nontraumatic), unspecified
- ## [80] Cerebrovascular disease, unspecified
- ## [81] Peripheral vascular disease, unspecified
- ## [82] Emphysema, unspecified
- ## [83] Chronic obstructive pulmonary disease with acute lower respiratory infection
- ## [84] Chronic obstructive pulmonary disease with acute exacerbation, unspecified
- ## [85] Chronic respiratory failure
- ## [86] Vascular disorder of intestine, unspecified
- ## [87] Gastrointestinal haemorrhage, unspecified
- ## [88] Acute renal failure, unspecified
- ## [89] Unspecified renal failure
- ## [90] Urinary tract infection, site not specified
- ## [91] Other ill-defined and unspecified causes of mortality
- ## [92] Pedestrian injured in traffic accident involving other and unspecified motor vehicles
- ## [93] Person injured in unspecified motor-vehicle accident, traffic
- ## [94] Intentional self-harm by rifle, shotgun and larger firearm discharge
- ## [95] Assault by other and unspecified firearm discharge
- ## [96] Generalized and unspecified atherosclerosis
- ## [97] Acute myeloid leukaemia Malignant neoplasms
- ## [98] Endocarditis, valve unspecified
- ## [99] Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances, harmful use
- ## [100] Mental and behavioural disorders due to use of alcohol, harmful use
- ## [101] Mental and behavioural disorders due to use of alcohol, dependence syndrome
- ## [102] Influenza with pneumonia, influenza virus identified
- ## [103] Chronic viral hepatitis C
- ## [104] Endometrium Malignant neoplasms
- ## [105] B-cell lymphoma, unspecified Malignant neoplasms
- ## [106] Chronic lymphocytic leukaemia Malignant neoplasms
- ## [107] Other obesity
- ## [108] Disorder of lipoprotein metabolism, unspecified
- ## [109] Other specified degenerative diseases of nervous system
- ## [110] Multiple sclerosis
- ## [111] Hypertensive heart and renal disease with renal failure
- ## [112] Influenza with other respiratory manifestations, influenza virus identified
- ## [113] Person injured in collision between other specified motor vehicles (traffic)
- ## [114] Intentional self-poisoning by and exposure to other and unspecified drugs, medicaments and biological substances

- ## [115] Poisoning by and exposure to narcotics and psychodysleptics [hallucinogens], not elsewhere classified, undetermined intent
- ## [116] Enterocolitis due to Clostridium difficile
- ## [117] Malignant neoplasm of rectosigmoid junction
- ## [118] Larynx, unspecified Malignant neoplasms
- ## [119] Connective and soft tissue, unspecified Malignant neoplasms
- ## [120] Cervix uteri, unspecified Malignant neoplasms
- ## [121] Secondary malignant neoplasm of liver Malignant neoplasms
- ## [122] Non-Hodgkin lymphoma large cell (diffuse)
- ## [123] Insulin-dependent diabetes mellitus, without complications
- ## [124] Unspecified diabetes mellitus, with peripheral circulatory complications
- ## [125] Unspecified severe protein-energy malnutrition
- ## [126] Metabolic disorder, unspecified
- ## [127] Alzheimer disease with late onset
- ## [128] Encephalopathy, unspecified
- ## [129] Cardiac arrest, unspecified
- ## [130] Cardiac arrhythmia, unspecified
- ## [131] Subarachnoid haemorrhage, unspecified
- ## [132] Cerebral infarction due to thrombosis of cerebral arteries
- ## [133] Dissection of aorta [any part]
- ## [134] Interstitial pulmonary disease, unspecified
- ## [135] Respiratory failure, unspecified
- ## [136] Other and unspecified intestinal obstruction
- ## [137] Liver disease, unspecified
- ## [138] Other specified disorders of kidney and ureter
- ## [139] Extreme immaturity
- ## [140] Exposure to unspecified factor causing other and unspecified injury
- ## [141] Intentional self-harm by handgun discharge
- ## [142] Alcoholic liver disease, unspecified
- ## [143] Secondary malignant neoplasm of other specified sites Malignant neoplasms
- ## [144] Chronic myeloproliferative disease Uncertain neoplasms
- ## [145] Progressive supranuclear ophthalmoplegia [Steele-Richardson-Olszewski]
- ## [146] Epilepsy, unspecified
- ## [147] Acute ischaemic heart disease, unspecified
- ## [148] Other forms of chronic ischaemic heart disease
- ## [149] Dilated cardiomyopathy
- ## [150] Abdominal aortic aneurysm, ruptured
- ## [151] Phlebitis and thrombophlebitis of other deep vessels of lower extremities
- ## [152] Other disorders of lung
- ## [153] Acute pancreatitis, unspecified

- ## [154] Inhalation and ingestion of food causing obstruction of respiratory tract
- ## [155] Exposure to uncontrolled fire in building or structure
- ## [156] Exposure to excessive natural cold
- ## [157] Accidental poisoning by and exposure to antiepileptic, sedative-hypnotic, antiparkinsonism and psychotropic drugs, not elsewhere
- ## [158] Accidental poisoning by and exposure to alcohol
- ## [159] Alcoholic hepatic failure
- ## [160] HIV disease resulting in other specified conditions
- ## [161] Tongue, unspecified Malignant neoplasms
- ## [162] Mouth, unspecified Malignant neoplasms
- ## [163] Oropharynx, unspecified Malignant neoplasms
- ## [164] Duodenum Malignant neoplasms
- ## [165] Malignant neoplasm of gallbladder
- ## [166] Extrahepatic bile duct Malignant neoplasms
- ## [167] Ill-defined sites within the digestive system Malignant neoplasms
- ## [168] Vulva, unspecified Malignant neoplasms
- ## [169] Other and unspecified T-cell lymphomas Malignant neoplasms
- ## [170] Leukaemia, unspecified Malignant neoplasms
- ## [171] Anaemia, unspecified
- ## [172] Sarcoidosis, unspecified
- ## [173] Hypothyroidism, unspecified
- ## [174] Insulin-dependent diabetes mellitus, with renal complications
- ## [175] Unspecified diabetes mellitus, with ketoacidosis
- ## [176] Obesity, unspecified
- ## [177] Pure hypercholesterolaemia
- ## [178] Acidosis
- ## [179] Infantile cerebral palsy, unspecified
- ## [180] Acute and subacute infective endocarditis
- ## [181] Mitral (valve) insufficiency
- ## [182] Other specified conduction disorders
- ## [183] Subdural haemorrhage (acute)(nontraumatic)
- ## [184] Cerebral infarction due to embolism of cerebral arteries
- ## [185] Sequelae of cerebral infarction
- ## [186] Abdominal aortic aneurysm, without mention of rupture
- ## [187] Aortic aneurysm of unspecified site, ruptured
- ## [188] Influenza with other respiratory manifestations, virus not identified
- ## [189] Bacterial pneumonia, unspecified
- ## [190] Asthma, unspecified
- ## [191] Adult respiratory distress syndrome
- ## [192] Acute respiratory failure

- ## [193] Acute vascular disorders of intestine
- ## [194] Diverticular disease of intestine, part unspecified, with perforation and abscess
- ## [195] Perforation of intestine (nontraumatic)
- ## [196] Hepatic failure, unspecified
- ## [197] Acute cholecystitis
- ## [198] Decubitus ulcer and pressure area, unspecified
- ## [199] Rheumatoid arthritis, unspecified
- ## [200] Osteomyelitis, unspecified
- ## [201] Other preterm infants
- ## [202] Down syndrome, unspecified
- ## [203] Senility
- ## [204] Other lack of expected normal physiological development
- ## [205] Sudden infant death syndrome SIDS
- ## [206] Motorcycle rider [any] injured in unspecified traffic accident
- ## [207] Accidental suffocation and strangulation in bed
- ## [208] Inhalation and ingestion of other objects causing obstruction of respiratory tract
- ## [209] Assault by sharp object
- ## 209 Levels: Abdominal aortic aneurysm, ruptured ...