Conversion software ICD-10 to MDS

Version: July 3, 2012, by Bjarne Laursen

What this software does:
1) Reads an input data file including ICD-10 codes and eventually other codes from the Minimum data set. This file must be a .txt file according to the specifications below, with a record length of 52 characters.
2) Converts ICD-10 codes to MDS codes
3) Excludes non-injury cases
4) Creates a Minimum Data set (MDS) file
5) Creates a log file showing errors

What you need:
1) The software ICD_MDS.exe – it can be downloaded from
   https://dl.dropbox.com/u/2755688/ICD_MDS.exe
2) A conversion table file, ICD10_MDS_conv.txt. It is most easy if this file is place in the same directory as the input data file. It can be downloaded from
   https://dl.dropbox.com/u/2755688/ICD10_MDS_conv.txt
3) A computer running Windows (probably any version)

Output file names:
If the input data file is called ABC.txt, the output file name will be:
- Output MDS file: ABC_MDS.txt
- Log file: ABC_log.txt

All files will be places in the same directory as the original input data file.

Please check the log file for all errors.

The software converts the ICD-10 codes to the corresponding MDS codes according to the following rules:

- ICD-10 external cause of injury -> MDS intent & MDS mechanism, if the ICD-10 exists and the MDS intent code / MDS mechanism code is blank. If the MDS intent/mechanism code exists, they are only overwritten if the corresponding checkbox is checked (this in the default)
- ICD-10 place code (4th digit for X00-) -> MDS location, if the ICD-10 code exists and the MDS location code is blank. If the MDS location code exists, it is only overwritten if the corresponding checkbox is checked (this in the default)
- ICD-10 activity code (5th digit for X00-) -> MDS activity, if the ICD-10 code exists and the MDS activity code is blank. If the MDS activity code exists, it is only overwritten if the corresponding checkbox is checked (this in the default)
- ICD-10 diagnosis 1 -> MDS nature of injury 1 & MDS part of body injured 1, if the ICD-10 code exists and the MDS codes are blank. If the MDS injury/part of body codes exists, they are only overwritten if the corresponding checkbox is checked (this in the default)
- ICD-10 diagnosis 2 -> MDS nature of injury 2 & MDS part of body injured 2, if the ICD-10 code exists and the MDS codes are blank. If the MDS injury/part of body codes exists, they are only overwritten if the corresponding checkbox is checked (this in the default)
- Recording country, hospital code, record number, age category, sex of patient, permanent country of residence, month of attendance, year of attendance, and treatment & follow-up MUST exist in the input data file because these variables cannot be derived from ICD-10 codes.

- If the ICD-10 input value does not correspond to a transcoding rule, the output code is blank, and the code is reported in the log.

Input data file

Input file record specification. The black variables are identical to the MDS file, while the red are additional ICD-10 variables. The blue variables may be replace by the transcoded values.

Field	# char.	Position start	Position end	Format	Type
Recording country	2	1	2	nn	Alphanumeric
Hospital code	3	3	5	nnn	Numeric
Unique national record number	7	6	12	nnnnnnn	Numeric
Age category of patient	2	13	14	nn	Numeric
Sex of patient	1	15	15	n	Numeric
Permanent country of residence	1	16	16	n	Numeric
Month of attendence	2	17	18	nn	Numeric
Year of attendence	4	19	22	nnnn	Numeric
Treatment and follow-up	1	23	23	n	Numeric
Nature of injury 1 (primary injury)	2	24	25	nn	Numeric
Nature of injury 2 (secondary injury)	2	26	27	nn	Numeric
Part of the body injured 1 (primary injury)	2	28	29	nn	Numeric
Part of the body injured 2 (secondary injury)	2	30	31	nn	Numeric
Intent	1	32	32	n	Numeric
Location (setting) of occurrence	1	33	33	n	Numeric
Mechanism of injury	1	34	34	n	Numeric
Activity when injured	1	35	35	n	Numeric
ICD-10 external cause of injury (without the 4th and 5th digit. For V01-V99 the 4th digit is included.	5	36	40	xxx.x	Alphanumeric
ICD-10 place of injury (4th digit, X00-)	1	41	41	n	Numeric
ICD-10 activity (5th digit, X00-)	1	42	42	n	Numeric
ICD-10 diagnosis 1	5	43	47	xxx.x	Alphanumeric
ICD-10 diagnosis 2	5	48	52	xxx.x	Alphanumeric
Total record length	*52*				