**Document of MS project**

1. **using old edss score cut-off categories variables + Composite cohort**
2. prepare cohort data for descriptive stats and create descriptive stats
3. results -- F:\Jie\MS\04\_Delivery\01\_DescriptiveStats\03 Results
4. (the cohort data for descriptive stats): 2016-07-11 20.01.50
5. (descriptive stats)： DS\_20160713

Iii. (descriptive stats tables for delivery): Lichao added

1. code -- F:\Jie\MS\04\_Delivery\01\_DescriptiveStats\02 Code
2. (prepare the cohort data for descriptive stats): 01 prepare cohort for descriptive stats
3. Jie’s version: Change the input directory (i.e. line 12 of the code “F:\Jie\MS\04\_Delivery\01\_DescriptiveStats\02 Code\01 prepare cohort for descriptive stats\createJie'sVersion\Scripts\ main\_createCohort.R”) into: " F:\\Jie\\MS\\04\_Delivery\\01\_DescriptiveStats\\01 Data\\"
4. Lichao’s verion: Change the input directory (i.e. line 7 of the code “F:\Jie\MS\04\_Delivery\01\_DescriptiveStats\02 Code\01 prepare cohort for descriptive stats\createLichao'sVersion\ main\_lichao\_Jul06.R”) into:

"F:\\Jie\\MS\\04\_Delivery\\01\_DescriptiveStats\\03 Results\\ 2016-07-08 02.16.04\\"

1. (create the descriptive stats): 02 create descriptive stats

Copy the whole folder (i.e. 2016-07-11 20.01.50) to the following folder in the master node.

“s3://emr-rwes-pa-spark-dev-datastore/Jie/MS/Jul12/”

1. Preparing model data for Cmp cohorts
2. results -- F:\Jie\MS\04\_Delivery\02\_ExtractModelData4Cmp\03 Results
3. code -- F:\Jie\MS\04\_Delivery\02\_ExtractModelData4Cmp\02 Code
4. generate the data for model

change the directory of input file (i.e. line 99 of the code “F:\Jie\MS\04\_Delivery\02\_ExtractModelData4Cmp\02 Code\main.R”) into:

“F:\Jie\MS\04\_Delivery\01\_DescriptiveStats\03 Results\2016-07-11 20.01.50\”

Change the directory of the input file (i.e. line 118 of the code “F:\Jie\MS\04\_Delivery\02\_ExtractModelData4Cmp\02 Code\main.R”) into:

“F:\Jie\MS\04\_Delivery\01\_DescriptiveStats\03 Results\2016-07-08 02.16.04”

1. QC the data for model in the last step
2. change the input directory (i.e. line 5 of the code “F:\Jie\MS\04\_Delivery\02\_ExtractModelData4Cmp\02 Code\QcData4ModelUsingRayData.R”) into :

“F:\Jie\MS\04\_Delivery\02\_ExtractModelData4Cmp\03 Results”

1. change the input directory (i.e. line 7 of the code “F:\Jie\MS\04\_Delivery\02\_ExtractModelData4Cmp\02 Code\QcData4ModelUsingRayData.R”) into:

“F:\Jie\MS\04\_Delivery\01\_DescriptiveStats\01 Data”

1. InitModel and nonRegularizedGLM
2. results – F:\Jie\MS\04\_Delivery\03\_InitModel\_NonRegulatizedGLM\03 Results
3. (InitModel with all the base variables): 2016-07-14 20.48.49
4. (InitModel with top 10 variables): 2016-07-15 02.33.53
5. (GLM with top 10 variables): 2016-07-14 22.26.06
6. code -- F:\Jie\MS\04\_Delivery\13\_InitModel\_NonRegulatizedGLM\02 Code
7. initModel with the based variables:

change the input directory (i.e. line 18 of the code “F:\Jie\MS\04\_Delivery\03\_InitModel\_NonRegulatizedGLM\02 Code\InitModel\scripts\ run\_\_BooleanPredictor.R”) into :

“F:\Jie\MS\04\_Delivery\03\_InitModel\_NonRegulatizedGLM\01 Data\2016-07-12 15.43.48”

Change the line 32 into “main.arglist$bTopVarsOnly <- F”

1. initModel with the top 10 variables selected from the above model.

change the input directory (i.e. line 7 of the code “F:\Jie\MS\04\_Delivery\02\_ExtractModelData4Cmp\02 Code\QcData4ModelUsingRayData.R”) into:

“F:\Jie\MS\04\_Delivery\01\_DescriptiveStats\01 Data”

Change the line 32 into “main.arglist$bTopVarsOnly <- F”

Change the input directory (i.e. line of the code “F:\Jie\MS\04\_Delivery\03\_InitModel\_NonRegulatizedGLM\02 Code\InitModel\scripts\ run\_\_BooleanPredictor.R”) into:

“F:\Jie\MS\04\_Delivery\03\_InitModel\_NonRegulatizedGLM\03 Results\2016-07-14 20.48.49”

1. Non-regularized glm with the top 10 variables.

Change the input directory (i.e. line 36 of the code “F:\Jie\MS\04\_Delivery\03\_InitModel\_NonRegulatizedGLM\02 Code\ Non\_RegularizedGLM\scripts\main.R”) into :

F:\Jie\MS\04\_Delivery\03\_InitModel\_NonRegulatizedGLM\03 Results\2016-07-15 02.33.53

1. Results in Step 3) above put into tables for the composite cohort
2. results –
3. F:\Jie\MS\04\_Delivery\04\_FinalTables\03 Results\2016-07-14 05.33.59
4. tables for delivery: Lichao added
5. code -- F:\Jie\MS\04\_Delivery\04\_FinalTables\02 Code

change the input directory (i.e. line 4 of the code “F:\Jie\MS\04\_Delivery\04\_FinalTables\02 Code\createFinalTables.R) into:

“F:\Jie\MS\04\_Delivery\04\_FinalTables\01 Data\2016-07-14 20.48.49”

change the input directory (i.e. line 7 of the code “F:\Jie\MS\04\_Delivery\04\_FinalTables\02 Code\createFinalTables.R” ) into:

“F:\Jie\MS\04\_Delivery\04\_FinalTables\01 Data\2016-07-15 02.33.53”

change the input directory(i.e. line 9 of the code “F:\Jie\MS\04\_Delivery\04\_FinalTables\02 Code\createFinalTables.R”) into:

“F:\Jie\MS\04\_Delivery\04\_FinalTables\01 Data\ 2016-07-14 22.26.06”

1. **using new edss score cut-off categories variables + Composite cohort**
2. prepare cohort data for descriptive stats and create descriptive stats
3. results -- F:\Jie\MS\04\_Delivery\11\_DescriptiveStats\03 Results
4. (the cohort data for descriptive stats): 2016-07-19 01.52.43
5. (descriptive stats)： DS\_20160719
6. (descriptive stats tables for delivery): Lichao added
7. code -- F:\Jie\MS\02\_Code\Code4Delivery\11\_DescriptiveStats
8. (prepare the cohort data for descriptive stats): 01 prepare cohort for descriptive stats
9. Jie’s version: Change the input directory (i.e. line 12 of the code “F:\Jie\MS\04\_Delivery\01\_DescriptiveStats\02 Code\01 prepare cohort for descriptive stats\createJie'sVersion\Scripts\main\_createCohort.R”) into: " F:\\Jie\\MS\\04\_Delivery\\01\_DescriptiveStats\\01 Data\\"
10. Lichao’s verion: Change the input directory (i.e. line 6 of the code “F:\Jie\MS\04\_Delivery\01\_DescriptiveStats\02 Code\01 prepare cohort for descriptive stats\createLichao'sVersion\main.R”) into:

"F:\\Jie\\MS\\04\_Delivery\\11\_DescriptiveStats\\03 Results\\ 2016-07-08 02.16.04\\"

1. (create the descriptive stats): 02 create descriptive stats

Copy the whole folder (i.e. 2016-07-19 01.52.43) to the following folder in the master node.

“s3://emr-rwes-pa-spark-dev-datastore/Jie/MS/Jul19/2016-07-19 01.52.43/”

1. Preparing model data for Cmp cohorts
2. results -- F:\Jie\MS\04\_Delivery\12\_ExtractModelData4Cmp\03 Results
3. The model data after removing references: 2016-07-20 06.58.41
4. The model data after merging some categories: 2016-07-26 04.08.00
5. code -- F:\Jie\MS\04\_Delivery\12\_ExtractModelData4Cmp\02 Code
6. generate the data for model

change the directory and file name of input file (i.e. line 6 of the code “F:\Jie\MS\04\_Delivery\12\_ExtractModelData4Cmp\02 Code\scripts\GenDataFromRaw.R”) into:

“F:\Jie\MS\04\_Delivery\01\_DescriptiveStats\01 Data\ MS\_decsupp\_analset\_20160701.csv”

Change the directory and file name of the input file (i.e. line 9 of the code “F:\Jie\MS\04\_Delivery\12\_ExtractModelData4Cmp\02 Code\ scripts\GenDataFromRaw.R”) into:

“F:\Jie\MS\04\_Delivery\02\_ExtractModelData4Cmp\03 Results\cmp4Model.csv”

1. merge some categories

change the directory of the input file (i.e. line 4 of the code “F:\Jie\MS\04\_Delivery\12\_ExtractModelData4Cmp\02 Code\

mergeCategory.R” ) into:

“F:\Jie\MS\04\_Delivery\12\_ExtractModelData4Cmp\03 Results\2016-07-20 06.58.41”

1. QC the data for model in the last step
2. change the input directory (i.e. line 5 of the code “F:\Jie\MS\04\_Delivery\02\_ExtractModelData4Cmp\02 Code\QcData4ModelUsingRayData.R”) into :

“F:\Jie\MS\04\_Delivery\02\_ExtractModelData4Cmp\03 Results”

1. change the input directory (i.e. line 7 of the code “F:\Jie\MS\04\_Delivery\02\_ExtractModelData4Cmp\02 Code\QcData4ModelUsingRayData.R”) into:

“F:\Jie\MS\04\_Delivery\01\_DescriptiveStats\01 Data”

1. InitModel and nonRegularizedGLM
2. Results –F:\Jie\MS\04\_Delivery\13\_InitModel\_NonRegulatizedGLM\03 Results
3. (InitModel with all the base variables): 2016-07-26 04.15.57
4. (InitModel with top 10 variables): 2016-07-26 08.17.58
5. (GLM with top 10 variables): 2016-07-27 04.16.35
6. code -- F:\Jie\MS\04\_Delivery\13\_InitModel\_NonRegulatizedGLM\02 Code
7. initModel with the based variables:

change the input directory (i.e. line 18 of the code “F:\Jie\MS\04\_Delivery\13\_InitModel\_NonRegulatizedGLM\02 Code\InitModel\scripts\ run\_\_BooleanPredictor.R”) into :

“F:\Jie\MS\04\_Delivery\13\_InitModel\_NonRegulatizedGLM\01 Data\2016-07-26 04.08.00”

Change the line 32 into “main.arglist$bTopVarsOnly <- F”

1. initModel with the top 10 variables selected from the above model.

change the input directory (i.e. line 7 of the code “F:\Jie\MS\04\_Delivery\12\_ExtractModelData4Cmp\02 Code\QcData4ModelUsingRayData.R”) into:

“F:\Jie\MS\04\_Delivery\11\_DescriptiveStats\01 Data”

Change the line 32 into “main.arglist$bTopVarsOnly <- F”

Change the input directory (i.e. line of the code “F:\Jie\MS\04\_Delivery\13\_InitModel\_NonRegulatizedGLM\02 Code\InitModel\scripts\ run\_\_BooleanPredictor.R”) into:

“F:\Jie\MS\04\_Delivery\13\_InitModel\_NonRegulatizedGLM\03 Results\2016-07-26 04.15.57”

1. Non-regularized glm with the top 10 variables.

Change the input directory (i.e. line 36 of the code “F:\Jie\MS\04\_Delivery\13\_InitModel\_NonRegulatizedGLM\02 Code\ Non\_RegularizedGLM\scripts\main.R”) into :

F:\Jie\MS\04\_Delivery\03\_InitModel\_NonRegulatizedGLM\03 Results\2016-07-26 08.17.58

1. Results in Step 3) above put into tables for the composite cohort

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| 1. results – 2. F:\Jie\MS\04\_Delivery\14\_FinalTables\03 Results 3. tables for delivery: Lichao added |
| 1. code -- F:\Jie\MS\04\_Delivery\14\_FinalTables\02 Code |

change the input directory (i.e. line 4 of the code “F:\Jie\MS\04\_Delivery\14\_FinalTables\02 Code\createFinalTables.R) into:

“F:\Jie\MS\04\_Delivery\14\_FinalTables\01 Data\2016-07-26 04.15.57”

change the input directory (i.e. line 7 of the code “F:\Jie\MS\04\_Delivery\14\_FinalTables\02 Code\createFinalTables.R” ) into:

“F:\Jie\MS\04\_Delivery\14\_FinalTables\01 Data\2016-07-26 08.17.58”

change the input directory(i.e. line 9 of the code “F:\Jie\MS\04\_Delivery\04\_FinalTables\02 Code\createFinalTables.R”) into:

“F:\Jie\MS\04\_Delivery\14\_FinalTables\01 Data\2016-07-27 04.16.35”

1. **using new edss score cut-off categories variables + 4 other cohorts**
2. Preparing model data for the other 4 cohorts
3. results -- F:\Jie\MS\04\_Delivery\22\_ExtractModelData4Cmp\03 Results
4. code -- F:\Jie\MS\04\_Delivery\22\_ExtractModelData4Cmp\02 Code
5. generate the data for model

change the directory and file name of input file (i.e. line 5 of the code “F:\Jie\MS\04\_Delivery\22\_ExtractModelData4Cmp\02 Code\scripts\GenDataFromRaw.R”) into:

“F:\Jie\MS\04\_Delivery\01\_DescriptiveStats\01 Data\ MS\_decsupp\_analset\_20160701.csv”

Change the directory of the input file (i.e. line 35 of the code “F:\Jie\MS\04\_Delivery\22\_ExtractModelData4Cmp\02 Code\ scripts\GenDataFromRaw.R”) into:

“F:\Jie\MS\04\_Delivery\22\_ExtractModelData4Cmp\01 Data\2016-07-25 09.29.06”

1. InitModel and nonRegularizedGLM
2. Results –F:\Jie\MS\04\_Delivery\23\_InitModel\_NonRegulatizedGLM\03 Results
3. (InitModel with all the base variables): 2016-08-08 08.19.05
4. (InitModel with top 10 variables): 2016-08-08 09.24.44
5. (GLM with top 10 variables): 2016-08-11 06.51.00
6. (InitModel with all the base variables + B2B): 2016-08-11 12.00.36
7. (InitModel with top 10 variables + B2B): 2016-08-11 12.09.42
8. (GLM with top 10 variables + B2B): 2016-08-11 12.14.54
9. code -- F:\Jie\MS\04\_Delivery\23\_InitModel\_NonRegulatizedGLM\02 Code
10. initModel with the based variables: (for B2Fir, B2Sec and BConti)

use line 25 instead of line 26

change the input directory (i.e. line 18 of the code “F:\Jie\MS\04\_Delivery\23\_InitModel\_NonRegulatizedGLM\02 Code\InitModel\scripts\ run\_\_BooleanPredictor.R”) into :

“F:\Jie\MS\04\_Delivery\23\_InitModel\_NonRegulatizedGLM\01 Data\2016-08-08 05.39.00”

Change the line 36 into “main.arglist$bTopVarsOnly <- F”

1. initModel with the top 10 variables selected from the above model. (for B2Fir, B2Sec and BConti)

use line 25 instead of line 26

change the input directory (i.e. line 7 of the code “F:\Jie\MS\04\_Delivery\23\_InitModel\_NonRegulatizedGLM\02 Code\InitModel\scripts\ run\_\_BooleanPredictor.R”) into:

“F:\Jie\MS\04\_Delivery\23\_InitModel\_NonRegulatizedGLM\01 Data\2016-08-08 05.39.00”

Change the line 36 into “main.arglist$bTopVarsOnly <- F”

Change the input directory (i.e. line 39 of the code “F:\Jie\MS\04\_Delivery\23\_InitModel\_NonRegulatizedGLM\02 Code\InitModel\scripts\ run\_\_BooleanPredictor.R”) into:

“F:\Jie\MS\04\_Delivery\23\_InitModel\_NonRegulatizedGLM\03 Results\2016-08-08 08.19.05”

1. Non-regularized glm with the top 10 variables. (for B2Fir, B2Sec and BConti)

use line 25 instead of line 26

Change the input directory (i.e. line 36 of the code “F:\Jie\MS\04\_Delivery\03\_InitModel\_NonRegulatizedGLM\02 Code\ Non\_RegularizedGLM\scripts\main.R”) into :

F:\Jie\MS\04\_Delivery\23\_InitModel\_NonRegulatizedGLM\03 Results\2016-08-08 09.24.44

1. initModel with the based variables (especially for B2B):

use line 26 instead of line 25

change the input directory (i.e. line 18 of the code “F:\Jie\MS\04\_Delivery\23\_InitModel\_NonRegulatizedGLM\02 Code\InitModel\scripts\ run\_\_BooleanPredictor.R”) into :

“F:\Jie\MS\04\_Delivery\23\_InitModel\_NonRegulatizedGLM\01 Data\2016-08-08 05.39.00”

Change the line 36 into “main.arglist$bTopVarsOnly <- F”

1. initModel with the top 10 variables selected from the above model. (especially for B2B)

Use line 26 instead of 25

change the input directory (i.e. line 7 of the code “F:\Jie\MS\04\_Delivery\23\_InitModel\_NonRegulatizedGLM\02 Code\InitModel\scripts\ run\_\_BooleanPredictor.R”) into:

“F:\Jie\MS\04\_Delivery\23\_InitModel\_NonRegulatizedGLM\01 Data\2016-08-08 05.39.00”

Change the line 36 into “main.arglist$bTopVarsOnly <- F”

Change the input directory (i.e. line 39 of the code “F:\Jie\MS\04\_Delivery\23\_InitModel\_NonRegulatizedGLM\02 Code\InitModel\scripts\ run\_\_BooleanPredictor.R”) into:

“F:\Jie\MS\04\_Delivery\23\_InitModel\_NonRegulatizedGLM\03 Results\2016-08-08 08.19.05”

1. Non-regularized glm with the top 10 variables. (especially for B2B)

Change the input directory (i.e. line 36 of the code “F:\Jie\MS\04\_Delivery\0

3\_InitModel\_NonRegulatizedGLM\02 Code\ Non\_RegularizedGLM\scripts\main.R”) into :

F:\Jie\MS\04\_Delivery\23\_InitModel\_NonRegulatizedGLM\03 Results\2016-08-08 09.24.44

1. Results in Step 3) above put into tables for the other 4 cohorts

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| 1. results – 2. F:\Jie\MS\04\_Delivery\24\_FinalTables\03 Results\2016-08-10 13.10.01 (corresponding to i, ii, iii above) 3. F:\Jie\MS\04\_Delivery\24\_FinalTables\03 Results\2016-08-11 12.18.09 (corresponding to iv, v, vi above) 4. Tables for delivery: Lichao added |
| 1. code -- F:\Jie\MS\04\_Delivery\24\_FinalTables\02 Code |

Missing:

1. Raw data and dictionary
2. The variable description lookup table.