**Homework 2**. Due date is April 20 at 9 am.

SCORE=14

1. You will need to describe hospitalizations in the USA in 2000 and in 2009.

* Use 2000 and 2009 files for this homework
* Create ICD 9 procedure formats (score 1). Create formats for 2009 (use v.26) and Identify 10 the most common primary procedures in USA in 2009 (score 1)
* Create ICD 9 diagnosis formats (score 1). Create formats for 2009 (use v.26) and identify 10 the most common primary diagnoses in USA in 2009 (score 1)

1. Use array to calculate the number of procedures per each hospitalization in the combined 2000 and 2009 files. Report frequencies of number of procedures (score 1)
2. Using array, identify hospitalizations with asthma (ICD 9 diagnoses codes: 493.00, 493.01, 493.02, 493.10, 493.11, 493.12, 493.20, 493.21, 493.22, 493.80, 493.81, 493.82, 493.90, 493.91, 493.92). Use any diagnosis on the claim. Report number of hospitalizations with asthma in 2000 and in 2009. (Codes are from <https://www.ccwdata.org/web/guest/condition-categories>). (score 1)

* What were procedures used for patients hospitalized with asthma? Report 10 top procedures with their description (score 2)

Fill in the table below and write the conclusion (score 6)

Table 1. Characteristics of patients hospitalized in 2000 and in 2009 with the diagnosis of asthma

|  |  |  |  |
| --- | --- | --- | --- |
|  | 2000  (n=…) | 2009  (n= …) | P-value |
| Age (mean), years |  |  |  |
| Age groups |  |  |  |
| 0-18 |  |  |  |
| 19-44 |  |  |  |
| 45-64 |  |  |  |
| 65 or older |  |  |  |
| Gender |  |  |  |
| male |  |  |  |
| female |  |  |  |
| Admission type |  |  |  |
| Emergent |  |  |  |
| Urgent |  |  |  |
| Elective |  |  |  |
| Other type of admission |  |  |  |
| Length of stay (mean, median, interquartile range) |  |  |  |
| Discharge Disposition |  |  |  |
| Home |  |  |  |
| Transfer to short-term facility |  |  |  |
| Transfer to long-term facility |  |  |  |
| Died |  |  |  |
| Other |  |  |  |