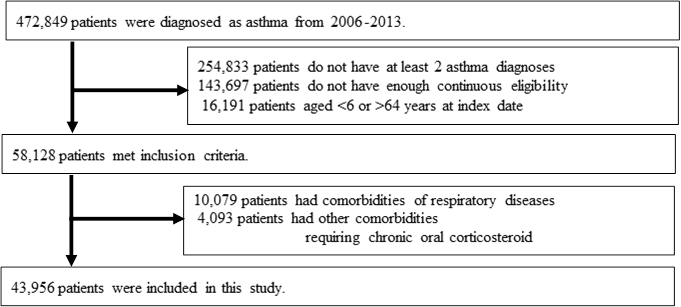
**Data checking for asthma treatment step project**

**Questions to Richard**

1. Patient flow chart: request updated patient flow-chart (after considering below concerns).

This is an example of the flow we need.



I cannot find the updated flow chart from your latest e-mail. Please send me the flow chart again and accept my apology if you have already sent it.

1. We would like to confirm that all covariates which were measured in pre-period were measured within 6 month prior to the index date (no longer or shorter than that). For example, the no\_med\_visit had a max of 179 which means a patient might visit clinics almost every day within 6 month period (180 days).
2. For no\_dx, we would like to make sure that one icd was counted as one number of different diagnosis. For instance, a patient had five diagnosis of icd; 480. They were counted as one different diagnosis (NOT 5 diagnoses).
3. There are still have 10 patients with negative baseline cost. Could you please check them whether they are missing value.
4. For exposure file, there are still have 0.3% of observations which had date of step\_stop later than 31dec2013 (the end of our observation period). Could you check whether they are missing value?
5. **Baseline Characteristics**

|  |  |  |  |
| --- | --- | --- | --- |
| **Variable** | **Format** | **Assessment**  **(Correct? Y/N)** | **Note** |
| pat\_id | 0268AAAAAAAACPBG | Y | N = 55,744 |
| der\_sex | F/M/U | Y | There is only two observations with U,  58.2%F and 41.8%M |
| der\_yob | YYYY | Y | **Min:**1942, **Max:**2005 |
| pat\_region | E/MW/S/W | Y | E:28.51%, MW:30.96%, S: 28.34%, and W: 12.19% |
| index\_asthma\_date | 01jul2006 | Y | **Min**: 01jul2006, **Max**: 31dec2011 |
| fst\_asthma\_dx | 01jul2006 | Y | **Min**: 01jul2006, **Max**: 31dec2011 |
| second\_asthma\_dx | 02jul2006 | Y | **Min**: 02jul2006, **Max**: 19dec2012 |
| fst\_asthma\_dx\_year | 2006 | Y | **Min**: 2006, **Max**: 2011 |
| second\_asthma\_dx\_year | 2006 | Y | **Min**: 2006, **Max**: 2012 |
| age | 6 | Y | **Mean (sd):** 31.21 (18.21), **Min:**6, **Max:**69 |
| region | 1/2/3/4 | Y | Same as pat\_region |
| season\_index | 1/2/3/4 | Y | [1 = summer (26.31%), 2 = fall (31.95%), 3 = winter (21.86%), 4 = spring (19.88%)] |
| gender | 0/1/2 | Y | Same as der\_sex |
| elig\_start | 01jan2006 | Y | 01jan2006 to 01jun2011 |
| elig\_stop | 02jan2006 | Y | 31jul2008 to 31dec2013 |
| elig\_days | 942 | Y | **Mean (sd):** 1975 (573), **Min:**942, **Max:**2922 |
| no\_cont\_eligi\_fu | 731 | Y | **Mean (sd):** 1390 (510), **Min:**731, **Max:**2741 |
| no\_cont\_eligi\_pre\_period | 181 | Y | **Mean (sd):** 584 (419), **Min:**181, **Max:**2188 |
| insurance | 1-6 | Y | [1 = Commercial (83.21%), 2 = SCHIP (0.55%), 3 = Medicaid (4.11%), 4 = Medicare (0.46%), 5 = Self-insured (11.19%), 6 = Unknown/missing (0.47%)] |
| no\_dx | 2 | ?? | **Mean (sd):** 6.22 (6.34), **Min:**0, **Max:**79 |
| allergic\_rhinitis | 0/1 | ?? | 17.90% |
| obesity | 0/1 | ?? | 2.97% |
| eczema | 0/1 | ?? | 3.64% |
| osa | 0/1 | ?? | 4.67% |
| gerd | 0/1 | ?? | 0.35% |
| resp\_infect | 0/1 | ?? | 26.62% |
| no\_hosp | 2 | ?? | **Mean (sd):** 0.29 (0.21), **Min:**0, **Max:**10  97.6% has no hospitalization |
| no\_asthma\_hosp | 4 | ?? | **Mean (sd):** 0.005 (0.079), **Min:**0, **Max:**4  99.6% has no hospitalization |
| no\_ed | 1 | ?? | **Mean (sd):** 0.13 (0.33), **Min:**0, **Max:**1 |
| no\_asthma\_ed | 1 | ?? | **Mean (sd):** 0.11 (0.10), **Min:**0, **Max:**1 |
| no\_med\_visit | 20 | ?? | **Mean (sd):** 5.48 (7.17), **Min:**0, **Max:**179 |
| no\_procedure | 10 | ?? | **Mean (sd):** 9.00 (10.58), **Min:**0, **Max:**139 |
| no\_drug\_claim | 3 | ?? | **Mean (sd):** 3.75 (4.43), **Min:**0, **Max:**54 |
| baseline\_cost | 1000 | ?? | **Mean (sd):** 2215 (7868), **Min:** -8222, **Max:**806192 |
| no\_asthma\_op | 0-8 | ?? | **Mean (sd):** 0.028 (.223), **Min:**0, **Max:**9  97.96% has no op asthma visit (Most patients are new user????) |
| no\_asthma\_lrti | 0-8 | ?? | **Mean (sd):** 0.042 (0.273), **Min:**0, **Max:**10  96.86% has no lrti |
| CCI | 0-12 | ?? | **Mean (sd):** 0.27 (0.63), **Min:**0, **Max:**12 |

1. **Exposure**

|  |  |  |  |
| --- | --- | --- | --- |
| **Variable** | **Format** | **Assessment**  **(Correct? Y/N)** | **Note** |
| pat\_id | 0268AAAAAAAACPBG | Y | N = 55,744 |
| index\_asthma\_date | 01jan2006 | Y | **Min**: 01jul2006, **Max**: 31dec2011 |
| elig\_start | 01jan2006 | Y | 01jan2006 to 01jun2011 |
| elig\_stop | 02jan2006 | Y | 31jul2008 to 31dec2013 |
| step\_start | 01jan2006 | Y | 01jul2006 to 31dec2013 |
| step\_stop | 03jan2006 | N | 04jul2006 to 25nov2021 |
| trt\_step | 0-5 | Y | trt0=43.11% ***(based on at least one day gap)***  trt1=17.79%  trt2=14.35%  trt3=11.87%  trt4=11.61%  trt5=1.28% |
| start\_date | 2542 | Y |  |
| stop\_date | 1564 | Y |  |

1. **Outcomes**

|  |  |  |  |
| --- | --- | --- | --- |
| **Variable** | **Format** | **Assessment**  **(Correct? Y/N)** | **Note** |
| pat\_id | 0268AAAAAAAACPBG | Y | N = 55,744 |
| eventdt | 02jan2006 | Y | 01jul2006 to 31dec2013 |
| event | 0-4 | Y | 0 = 7.47%  1 = 10.63%  2 = 18.46%  3 = 24.98%  4 = 38.46%  **Number of event = 156,204 events** |
| event\_date | 1231 | Y |  |