**Hanan Goldberg – Preliminary tables and analyses for thesis: 26/2/2018**

Table 1: Demographic and baseline clinical data:

|  |  |  |  |
| --- | --- | --- | --- |
| ***DATA NEEDED*** | ***COHORT TO ACQUIRE*** | ***VARIABLE NAME*** | ***REMARKS*** |
| Number of people in each Age category at time T0  1 – 66-69  2 – 70-74  3 – 75-79  4 – 80-84  5 – 85-89 | Outcomes\_cohort\_cleaned\_up | age\_cat |  |
| Mean ADG score at COHORT ENTRY for entire cohort | Outcomes\_cohort\_cleaned\_up | adg\_score |  |
| Mean ADG score for each age category at time T0  1 – 66-69  2 – 70-74  3 – 75-79  4 – 80-84  5 – 85-89 | Outcomes\_cohort\_cleaned\_up | adg\_score, |  |
| Rurality mean score for each age category and for all men  1 – 66-69  2 – 70-74  3 – 75-79  4 – 80-84  5 – 85-89  All men | Outcomes\_cohort\_cleaned\_up | rurality\_score, age\_cat | AT BASELINE  rurality\_score: has NA’s missing 400. |
| RURAL CATEGORY (0,1) for each age group and for all men (how many “1”)  1 – 66-69  2 – 70-74  3 – 75-79  4 – 80-84  5 – 85-89  All men | Outcomes\_cohort\_cleaned\_up | rurality\_cat, | AT BASELINE |
| Number of Income quintiles CATEGORies (1-5) for entire cohort  Income 1  Income 2  Income 3  Income 4  Income 5 | Outcomes\_cohort\_cleaned\_up | income\_quint | AT BASELINE |
| Number of Income quintiles CATEGORies (1-5) for each age category  1 – 66-69 – 1,2,3,4,5  2 – 70-74 – 1,2,3,4,5  3 – 75-79 – 1,2,3,4,5  4 – 80-84 – 1,2,3,4,5  5 – 85-89 – 1,2,3,4,5 | Outcomes\_cohort\_cleaned\_up | income\_quint, age\_cat |  |
| Mean Mortality risk score for entire cohort | Outcomes\_cohort\_cleaned\_up | mortality\_risk |  |
| Mean Mortality risk score for each age category | Outcomes\_cohort\_cleaned\_up | mortality\_risk, age\_cat |  |

Table 2 -Biopsy data:

|  |  |  |  |
| --- | --- | --- | --- |
| ***DATA NEEDED*** | ***COHORT TO ACQUIRE*** | ***VARIABLE NAME*** | ***REMARKS*** |
| DELETE: ~~(Mean number of biopsies in general for entire cohort. skewed)~~  Median, IQR | cohort\_time\_dependent\_variables\_cleaned\_up | current\_interval,  Num\_biopsies | Counting process |
| DELETE: ~~Mean, Median and IQR,~~ Instead use: number of biopsies for each age category  1 – 66-69  2 – 70-74  3 – 75-79  4 – 80-84  5 – 85-89 | Cohort\_time\_dependent\_variables\_cleaned\_up | current\_interval,  Num\_biopsies,  age\_catagory | Counting process |
| How many patients had biopsies  0 biopsy  1 biopsy  2 biopsies  3 biopsies  4 biopsies  5 biopsies  6 biopsies  7 biopsies  8 biopsies  9 biopsies  10 biopsies | Cohort\_time\_dependent\_variables\_cleaned\_up | current\_interval,  Num\_biopsies | Counting process |

Table 3 – drug usage throughout study period

|  |  |  |
| --- | --- | --- |
| ***DATA NEEDED*** | ***COHORT TO ACQUIRE*** | ***VARIABLE NAME*** |
| Number of patients and % of patients taking each drug ***before study*** period began   1. Diabetes drugs: 2. Alpha glucosidase inhibitors 3. Dipeptidyl peptidase 4 inhibitors 4. Insulin 5. Meglitinides 6. Metformin 7. SGL2 inhibitors 8. Sulfonylurea 9. Thizolidinedions 10. Statins 11. Hydrophilic 12. Hydrophobic 13. Alphablockers 14. 5ARI 15. Chloroquine 16. Dipyridamole 17. Proton Pump Inhibitors (PPI) 18. All 19. All but pantoprazole 20. Only Pantoprazole 21. Glaucoma eye drops 22. **No drug whatsoever** | Outcomes\_cohort\_cleaned\_up | 1.a. AGI\_pret0  1.b. DP4I\_pret0  1.c. Insulin\_pret0  1.d. meglitinides\_pret0  1.e. metformin\_pret0  1.f. SGL2\_pret0  1.g. sulfo\_pret0  1.h. TZDs\_pret0  2.a. hydrophilic\_statin\_pret0  2.b. hydrophobic\_statin\_pret0  3. alphablocker\_pret0  4. 5ari\_pret0  5. chloroquine\_pret0  6. dipyridamole\_pret0  7.a. PPI\_all\_pret0  7.b. PPI\_all\_but\_panto\_pret0  7.c. PPI\_pantoprazole\_pret0  8. glaucoma\_drops\_pret0 |
| Number of patients and % of patients taking each drug (ever) – during study period | Cohort\_time\_dependent\_variables\_cleaned\_up | 1.a. AGI\_used\_in\_interval  1.b. DP4I\_used\_in\_interval  1.c. Insulin\_used\_in\_interval  1.d. meglitinides\_used\_in\_interval  1.e. metformin\_used\_in\_interval  1.f. SGL2\_used\_in\_interval  1.g. sulfo\_used\_in\_interval  1.h. TZDs\_used\_in\_interval  2.a. hydrophilic\_statin\_used\_in\_interval  2.b. hydrophobic\_statin\_used\_in\_interval  3. alphablocker\_used\_in\_interval  4. 5ari\_used\_in\_interval  5. chloroquine\_used\_in\_interval  6. dipyridamole\_ used\_in\_interval  7.a. PPI\_other\_used\_in\_interval  7.c. PPI\_panto\_used\_in\_interval  8. glaucomadrop\_used\_in\_interval |
| Number and percentage of patients taking cumulative use of drugs for more than 1 years (365 days) | Cohort\_time\_dependent\_variables\_cleaned\_up | Same as above (counting process) |
| Number and percentage of patients taking cumulative use of drugs for more than 3 years (1095 days) | Cohort\_time\_dependent\_variables\_cleaned\_up | Same as above (counting process) |
| Number and percentage of patients taking cumulative use of drugs for more than 5 years (1825 days) | Cohort\_time\_dependent\_variables\_cleaned\_up | Same as above (counting process) |
| Number and percentage of patients taking cumulative use of drugs for more than 10 years (3650 days) | Cohort\_time\_dependent\_variables\_cleaned\_up | Same as above (counting process) |
| Mean cumulative duration of use of each drug per study period | Cohort\_time\_dependent\_variables\_cleaned\_up |  |
| Mean Cumulative dosage of each drug per study period  Does this measure make any sense? What does mean cumulative dosage of each drug per patient show? | Cohort\_time\_dependent\_variables\_cleaned\_up |  |
| Mean Cumulative dosage of each drug per study period | Cohort\_time\_dependent\_variables\_cleaned\_up | 1.a. AGI\_cum\_dose  1.b. DP4I\_ cum\_dose  1.c. Insulin\_ cum\_dose  1.d. meglitinides\_cum\_dose  1.e. metformin\_ cum\_dose  1.f. SGL2\_ cum\_ dose  1.g. sulfo\_ cum\_ dose  1.h. TZDs\_ cum\_duration\_days  2.a. hydrophilic\_cum\_ dose  2.b. hydrophobic\_ cum\_ dose  3. alphablocker\_cum\_ dose  4. 5ari\_ cum\_ dose  5. chloroquine\_ dose  6. dipyridamole\_cum\_dose  7.a. PPI\_ cum\_ dose  7.c. PPI\_ cum\_ dose  8. glaucomadrop\_ cum\_ dose |

Table 4 - Prostate cancer diagnosis, treatment and death

|  |  |  |  |
| --- | --- | --- | --- |
| ***DATA NEEDED*** | ***COHORT TO ACQUIRE*** | ***VARIABLE NAME*** | ***REMARKS*** |
| Number and Percent of patients diagnosed with cancer In general in study period | Outcomes\_cohort\_cleaned\_up | PCcancer\_dx |  |
| Number and percentage of patients diagnosed with prostate cancer in each age catergory | Cohort\_time\_dependent\_variables\_cleaned\_up | age\_category, PC\_diagnosed\_in\_interval | Should this be for each time interval, is it over any interval. |
| Number and percent of patients diagnosed with cancer after each biopsy  After biopsy 1  After biopsy 2  After biopsy 3  After biopsy 4  After biopsy 5 | Cohort\_time\_dependent\_variables\_cleaned\_up | PC\_diagnosed\_in\_interval (once diagnosed – next intervals will be empty), cum\_biopsies\_done (maybe in next interval) |  |
| Mean time (SD) between cohort entry and cancer diagnosis | Cohort\_time\_dependent\_variables\_cleaned\_up | Days\_to\_PC\_dxdate1 |
| Number and Percent of patients treated with Radical prostatectomy | Outcomes\_all\_cleaned\_up | eventtype (Radical prostatectomy (DAD)) | Make sure eventtype (Radiation therapy (DAD)) did not happen before, using: “ days\_to\_1st\_event” |
| Number and Percent of patients treated with radiation therapy | Outcomes\_all\_cleaned\_up | eventtype (Radiation therapy (DAD)) | Make sure eventtype (Radical prostatectomy (DAD)) did not happen before, using: “ days\_to\_1st\_event” |
| Number and Percent of patients treated with radiation therapy  And hormonal therapy | Cohort\_time\_dependent\_variables\_cleaned\_up | radiation\_in\_this\_interval and ADT\_used\_in\_this\_interval (within 6 month of radiation\_in\_this\_interval) | Make sure radical\_prostatectomy\_in\_this\_interval has been 0 up to this interval, with up to 6 months difference between radiation and ADT |
| Number and Percent of patients treated only with hormonal therapy | Cohort\_time\_dependent\_variables\_cleaned\_up | ADT\_used\_in\_this\_interval | Make sure radical\_prostatectomy\_in\_this\_interval and radiation\_therapy\_in\_this\_interval has been 0 up to this interval |
| Number and Percent of patients treated only with Orchiectomy | Cohort\_time\_dependent\_variables\_cleaned\_up | orchiectomy\_in\_this\_interval, only if PC\_diagnosed\_in\_this\_interval is “1” before that |  |
| Mean time passed from cohort entry to Radical prostatctomy | Outcomes\_all\_cleaned\_up | eventtype (Radical Prostatectomy (DAD)), days\_to\_1st\_event | Make sure eventtype (Radiation therapy (DAD)) did not happen before, using: “ days\_to\_1st\_event” |
| Mean time passed from cohort entry to Radiation therapy | Outcomes\_all\_cleaned\_up | eventtype (Radiation therapy (DAD)), days\_to\_1st\_event | Make sure eventtype (Radical prostatectomy (DAD)) did not happen before, using:“ days\_to\_1st\_event” |
| Mean time passed from cohort entry to ADT | Cohort\_time\_dependent\_variables\_cleaned\_up | Start\_days\_of\_interval, ADT\_used\_in\_this\_interval | Make sure radical\_prostatectomy\_in\_this\_interval and radiation\_therapy\_in\_this\_interval has been 0 up to this interval |
| Number and percentage of people treated with radiation therapy at each age category  1 – 66-69  2 – 70-74  3 – 75-79  4 – 80-84  5 – 85-89 | Cohort\_time\_dependent\_variables\_cleaned\_up | age\_category, radiation\_in\_this\_interval | Make sure radical\_prostatectomy\_in\_this\_interval has been 0 up to this interval |
| Number and percentage of people treated with Radical\_prostatectomy at each age category  1 – 66-69  2 – 70-74  3 – 75-79  4 – 80-84  5 – 85-89 | Cohort\_time\_dependent\_variables\_cleaned\_up | age\_category, Radical\_prostatectomy\_in\_this\_interval | Make sure radiation\_therapy\_\_in\_this\_interval has been 0 up to this interval |
| Number and percentage of people treated with only ADT at each age category  1 – 66-69  2 – 70-74  3 – 75-79  4 – 80-84  5 – 85-89 | Cohort\_time\_dependent\_variables\_cleaned\_up | age\_category, ADT\_in\_this\_interval | Make sure radiation\_therapy\_\_in\_this\_interval has been 0 up to this interval |
| Number and percent of patients treated simultaneously with ADT+RT  1 – 66-69  2 – 70-74  3 – 75-79  4 – 80-84  5 – 85-89 | Cohort\_time\_dependent\_variables\_cleaned\_up | age\_category, ADT\_in\_this\_interval, radiation\_therapy\_in\_this\_interval | Time of treatment of both ADT and radiation must be within 6 months,  Make sure radical\_prostatectomy\_in\_this\_interval has been 0 up to this interval |
| Number and percent of patients treated with surgery and later on with radiation | Outcomes\_all\_cleaned\_up | eventtype (Radical Prostatectomy (DAD) and later on (Radiation therapy (DAD)), if days\_to\_first\_event of radiaton>\_days\_of\_first\_event of radical prostatectomy |
| Number and percent of papers treated with Radiation and later on with surgery | Outcomes\_all\_cleaned\_up | eventtype (Radical Prostatectomy (DAD) and later on (Radiation therapy (DAD)), if days\_to\_first\_event of radical prostatectomy>\_days\_of\_first\_event of radiation therapy |
| Number and percent of papers treated with Radiation later on with ADT (not concomitantly) | Cohort\_time\_dependent\_variables\_cleaned\_up | ADT\_in\_this\_interval, radiation\_therapy\_in\_this\_interval, Start\_days\_of\_interval, with more than 6 months difference between them |
| Number and percent of patients treated with Radical prostatectomy later on with ADT (not concomitantly) | Cohort\_time\_dependent\_variables\_cleaned\_up | ADT\_in\_this\_interval, radical\_prostatectomy\_in\_this\_interval, Start\_days\_of\_interval, with more than 6 months difference between them |
| Number and percent of patients that died in general (all patients and in each age category)  1 – 66-69  2 – 70-74  3 – 75-79  4 – 80-84  5 – 85-89 | Cohort\_time\_dependent\_variables\_cleaned\_up | death\_in\_this\_interval, age\_category |
| Number and Percent of patients that died from prostate cancer (all patients and in each age category)  1 – 66-69  2 – 70-74  3 – 75-79  4 – 80-84  5 – 85-89 | Cohort\_time\_dependent\_variables\_cleaned\_up | PCdeath\_in\_this\_interval, age\_category |  |
| Mean follow-up time in days and years for all patiens and for each age category  1 – 66-69  2 – 70-74  3 – 75-79  4 – 80-84  5 – 85-89 | Outcomes\_cohort\_cleaned\_up | fu\_time\_days  fu\_time\_years,  age\_category |  |

Table 5 PSA data:

|  |  |  |
| --- | --- | --- |
| ***DATA NEEDED*** | ***COHORT TO ACQUIRE*** | ***VARIABLE NAME*** |
| Mean PSA at prostate cancer diagnosis for entire cohort and for each age group | PSA\_interval\_cleaned\_up | PSA\_value1…29, interval, had\_PC |
| Mean Fpsa at prostate cancer diagnosis for entire cohort and for each age group | PSA\_interval\_cleaned\_up | Free\_PSAvalue1…29, interval, had\_PC |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |