Project : Causal inference with deep learning

Response variable

1. Pros\_cancer (page 18) : 1 (confirmed cancer) and 0 (no confirmed cancer)
2. Is\_dead (page 24)

Treatment variable: arm (page 14) 1: intervention 0 : control (change 2 to 0)

Covariates:

1. Age (page 14)
2. Sex (page 14)
3. Dre\_days0-3 (page 16) – numeric, time dependent
4. Psa\_level0-5 (page 16) – numeric, time dependent
5. Psa\_days0-5 (page 16) – numeric, time dependent
6. Pros\_clinstage (page 21) (code by 100 : 0, 200 : 1, 300 : 2 400 :3) : categorical
7. Pros\_gleason (page 21) : treat as numeric
8. Dx\_psa (page 22): numeric
9. dth\_days (Page 24) : numeric
10. race7 (page 34) : categorical variable, code as 1 : White, NonHispanic 2: Black-NonHispanic 3 : Hispanic 0 : Rest of race categories
11. educat (page 34) : categorical variable, code 0 as categories 1-3, 1 as categories 4-7.
12. Marital (page 34): categorical variable, code 1 for married, 0 for otherwise
13. Occupat (page 34): categorical variable, code 1 as working, 0 for otherwise
14. Cig\_stat (page 37) : categorical variable, code 1 as current, 0 for otherwise
15. Cig\_years (page 37) : numeric
16. cigpd\_f (page 37) : treat as numeric
17. fh\_cancer (page 39) : categorical
18. pros\_fh (page 39) : categorical, code 1 as yes and 0 as otherwise
19. pros\_fh\_age (page 39) : numeric
20. bmi\_curc (page 40) : numeric
21. prosprob\_f (page 45) : categorical
22. All variables in the BQ Diseases (page 43-44, all categoricals)
23. Surg\_age (page 46) : treat as numeric
24. Surg\_any (page 47) : categorical, code as 1 for yes 0 for otherwise
25. Surg\_biopsy, surg\_prostatectomy, surg\_resection : categorical

Response variable을 2개 생각했습니다. 우선 prostate에 대해서 해보고 그 다음에 dead에 대해서 하면 좋을 것 같습니다.