

# R Notebook

## Try to use title

```
source('source.R')

path_panel <- read.csv('data/Output/adult_panel.csv')

#path_panel %>% names
```

```
path_panel %>% filter(adult_cont_w2==1, adult_cont_w3== 1 ) %>% count
```

```
##          n
## 1 23668
```

```
#
path_panel %>% filter(wave_1==1, wave_2==1, wave_3==1) %>% count
```

```
##          n
## 1 23668
```

```
path_panel %>%
  filter(wave_1 == 1, wave_2 == 1, wave_3 ==1 ) %>%
  count(smoking_status_full_w1)
```

### Wave 1

```
## smoking_status_full_w1    n
## 1    current_est_smoker 8218
## 2    current_exp_smoker 1475
## 3    former_est_smoker 3675
## 4    former_exp_smoker 4982
## 5          never_smoker 5219
## 6                <NA>    99
```

```
path_panel %>%
  filter(adult_cont_w2==1,
         adult_cont_w3== 1,
         !is.na(R01R_A_CUR_ESTD_CIGS),
         !is.na(R01R_A_CUR_EXPR_CIGS),
         !is.na(R01R_A_FMR_ESTD_CIGS),
         !is.na(R01R_A_FMR_EXPR_CIGS )) %>%
  count(R01R_A_CUR_ESTD_CIGS, R01R_A_CUR_EXPR_CIGS, R01R_A_FMR_ESTD_CIGS, R01R_A_FMR_EXPR_CIGS )
```

```
## R01R_A_CUR_ESTD_CIGS R01R_A_CUR_EXPR_CIGS R01R_A_FMR_ESTD_CIGS
## 1 1 2 2
## 2 2 1 2
## 3 2 2 1
## 4 2 2 2
## 5 2 2 2
## R01R_A_FMR_EXPR_CIGS n
## 1 2 8218
## 2 2 1475
## 3 2 3675
## 4 1 4982
## 5 2 5219
```

```
path_panel %>%
  filter(wave_1 == 1, wave_2 == 1, wave_3 ==1 ) %>%
  count(smoking_status_full_w2)
```

```
## smoking_status_full_w2 n
## 1 current_est_smoker 8427
## 2 current_exp_smoker 792
## 3 former_est_smoker 4540
## 4 former_exp_smoker 4168
## 5 never_smoker 4975
## 6 <NA> 766
```

```
path_panel %>%
  filter(adult_cont_w2==1,
         adult_cont_w3== 1,
         !is.na(R02R_A_CUR_ESTD_CIGS),
         !is.na(R02R_A_CUR_EXPR_CIGS),
         !is.na(R02R_A_FMR_ESTD_CIGS_REV),
         !is.na(R02R_A_FMR_EXPR_CIGS_REV)) %>%
  count(R02R_A_CUR_ESTD_CIGS, R02R_A_CUR_EXPR_CIGS, R02R_A_FMR_ESTD_CIGS_REV, R02R_A_FMR_EXPR_CIGS_REV)
```

```
## R02R_A_CUR_ESTD_CIGS R02R_A_CUR_EXPR_CIGS R02R_A_FMR_ESTD_CIGS_REV
## 1 1 2 2
## 2 2 1 2
## 3 2 2 1
## 4 2 2 2
## 5 2 2 2
## R02R_A_FMR_EXPR_CIGS_REV n
## 1 2 8427
## 2 2 792
## 3 2 4540
## 4 1 4168
## 5 2 4975
```

```
path_panel %>%
  filter(wave_1 == 1, wave_2 == 1, wave_3 ==1 ) %>%
  count(smoking_status_full_w3)
```

```
## smoking_status_full_w3 n
```

```
## 1    current_est_smoker 8307
## 2    current_exp_smoker 555
## 3      former_est_smoker 4980
## 4      former_exp_smoker 3013
## 5          never_smoker 4838
## 6                <NA> 1975
```

```
path_panel %>%
  filter(adult_cont_w2==1,
         adult_cont_w3== 1,
         !is.na(R03R_A_CUR_ESTD_CIGS),
         !is.na(R03R_A_CUR_EXPR_CIGS),
         !is.na(R03R_A_FMR_ESTD_CIGS_REV),
         !is.na(R03R_A_FMR_EXPR_CIGS_REV)) %>%
  count(R03R_A_CUR_ESTD_CIGS, R03R_A_CUR_EXPR_CIGS, R03R_A_FMR_ESTD_CIGS_REV, R03R_A_FMR_EXPR_CIGS_REV)
```

```
##   R03R_A_CUR_ESTD_CIGS R03R_A_CUR_EXPR_CIGS R03R_A_FMR_ESTD_CIGS_REV
## 1                      1                      2                      2
## 2                      2                      1                      2
## 3                      2                      2                      1
## 4                      2                      2                      2
## 5                      2                      2                      2
##   R03R_A_FMR_EXPR_CIGS_REV    n
## 1                      2 8307
## 2                      2 555
## 3                      2 4980
## 4                      1 3013
## 5                      2 4838
```

```
path_panel %>%
  filter(wave_1 == 1, wave_2 == 1, wave_3 ==1 ) %>%
  count(smoking_status_full_w1, smoking_status_full_w2, smoking_status_full_w3)
```

```
##   smoking_status_full_w1 smoking_status_full_w2 smoking_status_full_w3    n
## 1    current_est_smoker    current_est_smoker    current_est_smoker 6655
## 2    current_est_smoker    current_est_smoker    former_est_smoker 643
## 3    current_est_smoker    current_est_smoker                <NA>    15
## 4    current_est_smoker    former_est_smoker    current_est_smoker 319
## 5    current_est_smoker    former_est_smoker    former_est_smoker 570
## 6    current_est_smoker    former_est_smoker                <NA>    14
## 7    current_est_smoker                <NA>    current_est_smoker    1
## 8    current_est_smoker                <NA>    former_est_smoker    1
## 9    current_exp_smoker    current_est_smoker    current_est_smoker 476
## 10   current_exp_smoker    current_est_smoker    former_est_smoker 48
## 11   current_exp_smoker    current_est_smoker                <NA>    1
## 12   current_exp_smoker    current_exp_smoker    current_est_smoker 127
## 13   current_exp_smoker    current_exp_smoker    current_exp_smoker 302
## 14   current_exp_smoker    current_exp_smoker    former_est_smoker 19
## 15   current_exp_smoker    current_exp_smoker    former_exp_smoker 85
## 16   current_exp_smoker    current_exp_smoker                <NA>    5
## 17   current_exp_smoker    former_est_smoker    current_est_smoker 23
## 18   current_exp_smoker    former_est_smoker    former_est_smoker 50
## 19   current_exp_smoker    former_est_smoker                <NA>    3
```

## 20	current_exp_smoker	former_exp_smoker	current_est_smoker	11
## 21	current_exp_smoker	former_exp_smoker	current_exp_smoker	46
## 22	current_exp_smoker	former_exp_smoker	former_est_smoker	10
## 23	current_exp_smoker	former_exp_smoker	former_exp_smoker	172
## 24	current_exp_smoker	former_exp_smoker	<NA>	35
## 25	current_exp_smoker	<NA>	current_est_smoker	7
## 26	current_exp_smoker	<NA>	current_exp_smoker	17
## 27	current_exp_smoker	<NA>	former_est_smoker	4
## 28	current_exp_smoker	<NA>	former_exp_smoker	17
## 29	current_exp_smoker	<NA>	<NA>	17
## 30	former_est_smoker	current_est_smoker	current_est_smoker	292
## 31	former_est_smoker	current_est_smoker	former_est_smoker	140
## 32	former_est_smoker	current_est_smoker	<NA>	1
## 33	former_est_smoker	former_est_smoker	current_est_smoker	160
## 34	former_est_smoker	former_est_smoker	former_est_smoker	3015
## 35	former_est_smoker	former_est_smoker	<NA>	54
## 36	former_est_smoker	<NA>	current_est_smoker	3
## 37	former_est_smoker	<NA>	former_est_smoker	10
## 38	former_exp_smoker	current_est_smoker	current_est_smoker	74
## 39	former_exp_smoker	current_est_smoker	former_est_smoker	26
## 40	former_exp_smoker	current_est_smoker	<NA>	1
## 41	former_exp_smoker	current_exp_smoker	current_est_smoker	20
## 42	former_exp_smoker	current_exp_smoker	current_exp_smoker	51
## 43	former_exp_smoker	current_exp_smoker	former_est_smoker	7
## 44	former_exp_smoker	current_exp_smoker	former_exp_smoker	78
## 45	former_exp_smoker	current_exp_smoker	<NA>	8
## 46	former_exp_smoker	former_est_smoker	current_est_smoker	19
## 47	former_exp_smoker	former_est_smoker	former_est_smoker	279
## 48	former_exp_smoker	former_est_smoker	<NA>	13
## 49	former_exp_smoker	former_exp_smoker	current_est_smoker	25
## 50	former_exp_smoker	former_exp_smoker	current_exp_smoker	73
## 51	former_exp_smoker	former_exp_smoker	former_est_smoker	92
## 52	former_exp_smoker	former_exp_smoker	former_exp_smoker	2342
## 53	former_exp_smoker	former_exp_smoker	<NA>	1209
## 54	former_exp_smoker	<NA>	current_est_smoker	4
## 55	former_exp_smoker	<NA>	current_exp_smoker	6
## 56	former_exp_smoker	<NA>	former_est_smoker	21
## 57	former_exp_smoker	<NA>	former_exp_smoker	123
## 58	former_exp_smoker	<NA>	<NA>	511
## 59	never_smoker	current_est_smoker	current_est_smoker	21
## 60	never_smoker	current_est_smoker	former_est_smoker	6
## 61	never_smoker	current_est_smoker	<NA>	2
## 62	never_smoker	current_exp_smoker	current_est_smoker	13
## 63	never_smoker	current_exp_smoker	current_exp_smoker	19
## 64	never_smoker	current_exp_smoker	former_est_smoker	4
## 65	never_smoker	current_exp_smoker	former_exp_smoker	26
## 66	never_smoker	current_exp_smoker	<NA>	13
## 67	never_smoker	former_est_smoker	former_est_smoker	2
## 68	never_smoker	former_exp_smoker	current_est_smoker	10
## 69	never_smoker	former_exp_smoker	current_exp_smoker	7
## 70	never_smoker	former_exp_smoker	former_est_smoker	1
## 71	never_smoker	former_exp_smoker	former_exp_smoker	74
## 72	never_smoker	former_exp_smoker	<NA>	42
## 73	never_smoker	never_smoker	current_est_smoker	13

## 74	never_smoker	never_smoker	current_exp_smoker	26
## 75	never_smoker	never_smoker	former_est_smoker	9
## 76	never_smoker	never_smoker	former_exp_smoker	82
## 77	never_smoker	never_smoker	never_smoker	4838
## 78	never_smoker	never_smoker	<NA>	7
## 79	never_smoker	<NA>	former_exp_smoker	1
## 80	never_smoker	<NA>	<NA>	3
## 81	<NA>	current_est_smoker	current_est_smoker	22
## 82	<NA>	current_est_smoker	former_est_smoker	4
## 83	<NA>	current_exp_smoker	current_est_smoker	8
## 84	<NA>	current_exp_smoker	current_exp_smoker	5
## 85	<NA>	current_exp_smoker	<NA>	2
## 86	<NA>	former_est_smoker	current_est_smoker	4
## 87	<NA>	former_est_smoker	former_est_smoker	15
## 88	<NA>	former_exp_smoker	current_exp_smoker	1
## 89	<NA>	former_exp_smoker	former_est_smoker	3
## 90	<NA>	former_exp_smoker	former_exp_smoker	8
## 91	<NA>	former_exp_smoker	<NA>	7
## 92	<NA>	<NA>	current_exp_smoker	2
## 93	<NA>	<NA>	former_est_smoker	1
## 94	<NA>	<NA>	former_exp_smoker	5
## 95	<NA>	<NA>	<NA>	12

## Missings

-9 = Missing -8 = Don't know 5 0.0 % -7 = Refused 10 0.0 % -1 = Inapplicable

```
path_panel %>%
  filter(wave_1 == 1, wave_2 == 1, wave_3 == 1, is.na(smoking_status_full_w2)) %>%
  count(cig_use_now_w2, cig_use_ever_w2, cig_num_life_w2)
```

##	cig_use_now_w2	cig_use_ever_w2	cig_num_life_w2	n
## 1	-8	1	-1	1
## 2	-8	1	5	1
## 3	-7	1	2	1
## 4	-1	1	-9	233
## 5	-1	1	-8	88
## 6	-1	1	-7	42
## 7	-1	1	-1	351
## 8	-1	1	5	1
## 9	-1	NA	-1	7
## 10	0	1	-8	10
## 11	0	1	-7	3
## 12	0	1	-1	4
## 13	1	1	-8	14
## 14	1	1	-7	10

##ASK Specification: ### IF R03\_AC1004 = 1 OR R03\_AC1002\_12M = 1 OR (R02\_EVER\_NEVER\_CIGS = 1 AND R03\_AC1002\_12M = -8, -7).

```
# cig_use_now: -1, -7 , -8
# cig_num_life: -1, -7 , -8

path_panel %>%
  filter(wave_1 == 1, wave_2 == 1, wave_3 ==1 ,is.na(smoking_status_full_w3)) %>%
  count(cig_use_now_w3, cig_use_ever_w3, cig_num_life_w3)
```

##	cig_use_now_w3	cig_use_ever_w3	cig_num_life_w3	n
## 1	-8	1	-1	4
## 2	-7	1	-1	3
## 3	-7	1	1	1
## 4	-7	1	4	1
## 5	-1	1	-8	21
## 6	-1	1	-7	22
## 7	-1	1	-1	1896
## 8	-1	NA	-1	9
## 9	0	1	-8	4
## 10	0	1	-7	6
## 11	1	1	-8	2
## 12	1	1	-7	6