

hw_6

Everett, Sophie, and Xinyu

Load packages

```
-- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
v dplyr     1.1.4     v readr     2.1.5
v forcats   1.0.0     v stringr   1.5.1
v ggplot2   3.5.2     v tibble    3.2.1
v lubridate 1.9.4     v tidyrr    1.3.1
v purrr    1.0.4
-- Conflicts ----- tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()    masks stats::lag()
i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become
here() starts at /Users/xinyuwang/Downloads/hw_6
```

Load data

```
Rows: 5748 Columns: 12
-- Column specification -----
Delimiter: ","
chr (2): sex, frl
dbl (10): schidkn, reg_size, reg_size_aid, small_size, white, black, other, ...
i Use `spec()` to retrieve the full column specification for this data.
i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

Singh et al. (2025)'s work demonstrated altered brain rsFC among patient with major depressive disorders, which is consistent with existing evidence (Krug et al. 2022), (Swartz et al. 2021), (Ishikawa et al. 2022).

Reference

- Ishikawa, Kazuhiro, Kiyotaka Nemoto, Yuki Shiratori, Noriko Sodeyama, Kikuko Kodama, Hitoshi Usuniwa, Noriko Yamada, et al. 2022. “Aberrant Resting-State Functional Connectivity of Major Depressive Disorder with Higher Risk of Suicide.” *Psychiatry and Clinical Neurosciences Reports* 1 (3): e35.
- Krug, Susann, T Müller, Özelem Kayali, Eerik Leichter, Stephanie KV Peschel, Niklas Jahn, L Winter, et al. 2022. “Altered Functional Connectivity in Common Resting-State Networks in Patients with Major Depressive Disorder: A Resting-State Functional Connectivity Study.” *Journal of Psychiatric Research* 155: 33–41.
- Singh, Paramdeep, Jawahar Singh, Sameer Peer, Manav Jindal, Sunil Khokhar, Abhilash Ludhiadch, and Anjana Munshi. 2025. “Assessment of Resting-State Functional Magnetic Resonance Imaging Connectivity Among Patients with Major Depressive Disorder: A Comparative Study.” *Annals of Neurosciences* 32 (1): 13–20.
- Swartz, Johnna R, Angelica F Carranza, Laura M Tully, Annchen R Knodt, Janina Jiang, Michael R Irwin, and Camelia E Hostinar. 2021. “Associations Between Peripheral Inflammation and Resting State Functional Connectivity in Adolescents.” *Brain, Behavior, and Immunity* 95: 96–105.