***Module overview***

“In contrast to a cohort study, in which exposed and unexposed individuals are compared with regard to the disease incidence (or some other mean value for the outcome), a case-control study compares cases (usually diseased individuals) and controls (e.g., nondiseased individuals) with respect to their level of exposure to a suspected risk factor.”

* Szklo, Moyses, Nieto, F. Javier. Epidemiology (p. 24).

***Module topics / Key Concepts***

* Overview of different case-control study designs
* Discussion of case-control study design elements

***Required videos***

Please view the following presentations **before** Monday, April 27th, 2020:

* Case-control Studies I (Lee, 2020): [Video](https://uthvideo.uth.tmc.edu/Panopto/Pages/Viewer.aspx?id=fc9d2a5b-4826-437c-9528-aaf9018b376f) | [PowerPoint](https://www.dropbox.com/s/lfpyw3qy8me4b4e/Case-control%20Studies%20I.pptx?dl=0)

***Required Readings***

Please view the following presentations **before** our next in-class lab session:

* Szklo, M., & Nieto, F. J. (2019). *Epidemiology: Beyond the Basics*. Burlington: Jones & Bartlett Learning.
  + Szklo & Nieto: Chapter 1, part 1.4.2 (p.24-32) & 1.4.5 (p.35-41)
  + Szklo & Nieto: Chapter 3, part 3.4 (p.103-115)
  + Szklo & Nieto: Chapter 6, part 6.4 & 6.5 (p.223-232)
  + Szklo & Nieto: Chapter 7, part 7.3.3, 7.3.4 (p.273-279), & 7.4 (p.279-316
* Pearl J., & Mackenzie D. (2018). *The Book of Why: The New Science of Cause and Effect*. Basic Books.
  + Chapter 8. Counterfactuals: Mining Worlds That Could Have Been

***Optional supplemental material***

* [Wacholder S, McLaughlin JK, Silverman DT, Mandel JS. Selection of controls in case-control studies. I. Principles. *Am J Epidemiol*. 1992;135(9):1019-1028. doi:10.1093/oxfordjournals.aje.a116396](https://www.dropbox.com/s/f4c70r86l79de91/Wacholder%20et%20al.%201992%20-%20Selection%20of%20controls%20in%20case-control%20studies.%20I.%20Principles.pdf?dl=0)
* [Wacholder S, Silverman DT, McLaughlin JK, Mandel JS. Selection of controls in case-control studies. II. Types of controls. *Am J Epidemiol*. 1992;135(9):1029-1041. doi:10.1093/oxfordjournals.aje.a116397](https://www.dropbox.com/s/vpui2v07rx5ujgw/Wacholder%20et%20al.%201992%20-%20Selection%20of%20controls%20in%20case-control%20studies.%20II.%20Types%20of%20controls.pdf?dl=0)
* [Wacholder S, Silverman DT, McLaughlin JK, Mandel JS. Selection of controls in case-control studies. III. Design options. *Am J Epidemiol*. 1992;135(9):1042-1050. doi:10.1093/oxfordjournals.aje.a116398](https://www.dropbox.com/s/9q3ns26uo22yko4/Wacholder%20et%20al.%201992%20-%20Selection%20of%20controls%20in%20case-control%20studies.%20III.%20Design%20options.pdf?dl=0)

***Assignments***

1. Check on learning quiz
2. Lab
3. Module quiz