

Warmup: dengue data

Group members:

Instructions: Work with a neighbor on the following activity. I will collect the handout at the end of class, and it will be part of your class participation grade. You will be graded only on effort – it is ok if you don't finish all the questions, or get them all correct.

Dengue data

Dengue fever is a mosquito-borne viral disease affecting 400 million people a year. A research study on dengue fever was conducted, and data were collected on 5720 Vietnamese children, admitted to the hospital with possible dengue fever. Variables include:

- *Sex*: patient's sex (female or male)
- *Age*: patient's age (in years)
- *WBC*: white blood cell count
- *PLT*: platelet count
- other diagnostic variables...
- *Dengue*: whether the patient has dengue (0 = no, 1 = yes)

The researchers are interested in the following research questions:

- How well can we predict whether a patient has dengue?
- Which diagnostic measurements are most useful?
- Is there a significant relationship between age and dengue?

Questions

1. How might you try to address each of these questions? Brainstorm potential approaches here.