

Collaborators:

Worksheets are marked mostly on completion, and partially on correctness. It will be marked either pass or fail, there will no detailed feedback on worksheets, and no opportunities for revisions and make-up.

- Determine the z^* for a 99% confidence level.
- Calculate the minimum sample size required.
- How does increasing the sample size impact the margin of error?

2. Vaccination Rates

A health organization surveyed 1,200 individuals, and 900 reported receiving the flu vaccine last year.

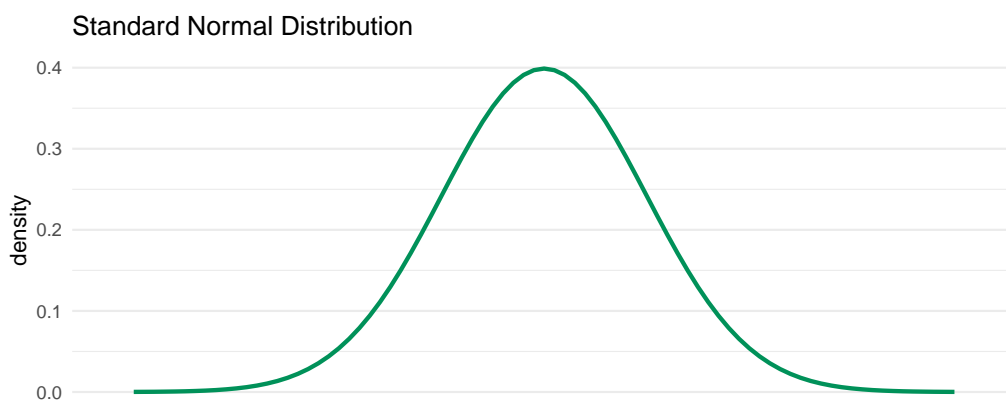
a. Calculate a 90% confidence interval for the proportion of individuals who received the flu vaccine.

i. Determine the z^* for a 90% confidence level.

ii. Determine the point estimate and the standard error.

iii. Determine the end points of the 90% confidence interval.

b. Using the results of Part (a), shade the 90% probability with correct labels of the point estimate and the end points of the confidence interval.



References

1. Diez DM, Barr CD, Çetinkaya-Rundel M (2012) [OpenIntro statistics](#), OpenIntro.