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Sherry E Scott* (sscott@msri.org), **K. Barley**, **K. Cook** and **A. Gumel**. *Which infectious classes are the main drivers for COVID -19?*

There is evidence that a significant portion of the infected cases in the transmission of COVID-19 come from the asymptomatic and presymptomatic cases. We design a mathematical model to evaluate the contribution of asymptomatic and presymptomatic transmission using data from the states of Arizona, Florida, New York and Washington. More specifically we address the question of how many new cases are generated by presymptomatic and asymptomatic infectious individuals and seek to use this information to guide and determine postlockdown strategies. (Received September 15, 2020)