1172-62-76   **Shishen Xie*** (`xies@uhd.edu`), Department of Mathematics and Statistics, University of Houston-Downtown, 1 Main Street, Houston, TX 77002. *Data Analysis of an Anti-Tuberculous Treatment.* Preliminary report.

In this presentation statistical models are applied to analyze the Interferon-gamma (IFN-γ) levels of subjects who participated in an anti-tuberculosis treatment. The baseline IFN-γ level of the participants shows that they were all tuberculosis positive. Data analysis is performed to compare the IFN-γ levels after one, two, four and six months of the treatment, and as a result, quantitatively determines if there is a significant reduction in the mean IFN-γ levels. Based on the results of data analysis, conclusions are drawn about the effectiveness of the treatment, and recommendations are made to improve the treatment. (Received August 17, 2021)