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**Jin Tan\*** (jtan21@uic.edu), 2817 S Unon Ave, 1R, Chicago, IL 60616. *On the Comparison of One Stage and Two Stage Selection Procedures in Bayes Approach*. Preliminary report.

Multistage selection procedures, especially two stage selection procedure has been widely considered in literature, but the there is not a lot on its advantage or disadvantage compared to the traditional one stage selection procedure. I will talk about the comparison of one stage selection procedure and two stage procedure in balanced model with cost of sampling. Decision theoretic Bayes approach is utilized to evaluate the posterior risks. Theoretical and simulation results are given for two most widely used distributions, normal distributions with unknown means and binomial distributions with unknown probabilities of success. (Received September 21, 2010)