

ASSIGNMENT I (30%) DUE DATE: FEB 10, 2020

As for the serum/urine protein electrophoresis project, the study's objective was to develop a simplified clinical decision rule that could increase the yield of serum or urine protein electrophoresis (SPE/UPE) without loss of sensitivity. The design was a cross-sectional study of inpatients with a SPE/UPE performed over a 5 year period (2001-2006) with complete data on electrolytes, globulins, full blood count, creatinine, age, and gender. Details of the variables have been described and labeled in the data set. The outcome of interest was having paraprotein in serum or urine protein electrophoresis, or both.

Suppose that you have been involved in this study to take care of data analysis

- a) Analyse data for both phases **including**
 - Development phase
 - Internal validation by
 - a) Split data or
 - b) bootstrap
- b) Construct tables or figures or both where appropriate for reporting
- c) Writing reports consisting of
 - Statistical analysis methods
 - Results, interpret your findings with referring to tables and figures