Homework assignment 08

Use black text (if possible) for everything you include in this document. Keep both your answers and the original questions. Save this document in PDF format and submit it on Canvas. Please follow the general requirements described in the grading rubric.

1. Show a documentation header. Include your name, the purpose of the program, and the conditions under which others may or may not use your results.

2. Open the SPSS file heroin.sav and display the first ten rows of data.

3. The variable status indicates whether the patient left the clinic or was still in the clinic when last evaluated. Note that leaving the clinic early is a positive outcome. Compute frequencies for status. Divide the number of events (not the number of censored values) by 15 to get a reasonable number of independent variables to use for this dataset.

4. Transform time in days to time in years to compute an overall Kaplan-Meier curve. Show the curve below along with the quartiles. Interpret the median for this dataset.

5. Divide Dose into three groups: 50 and below, 55 to 65, and 70 and above. Draw Kaplan-Meier curves for these dose groups. Include a log rank test in your results. Interpret the Kaplan-Meier curves and the log rank test.

6. Compare the time spent in the methadone clinics between those patients who had a prison record and those who did not, using a Kaplan-Meier curve and log rank test. Interpret these results.

7. Calculate a hazard ratio for Prison, unadjusted. Recalculate the hazard ratio adjusted for Dose (not the dose group). Interpret these hazard ratios.