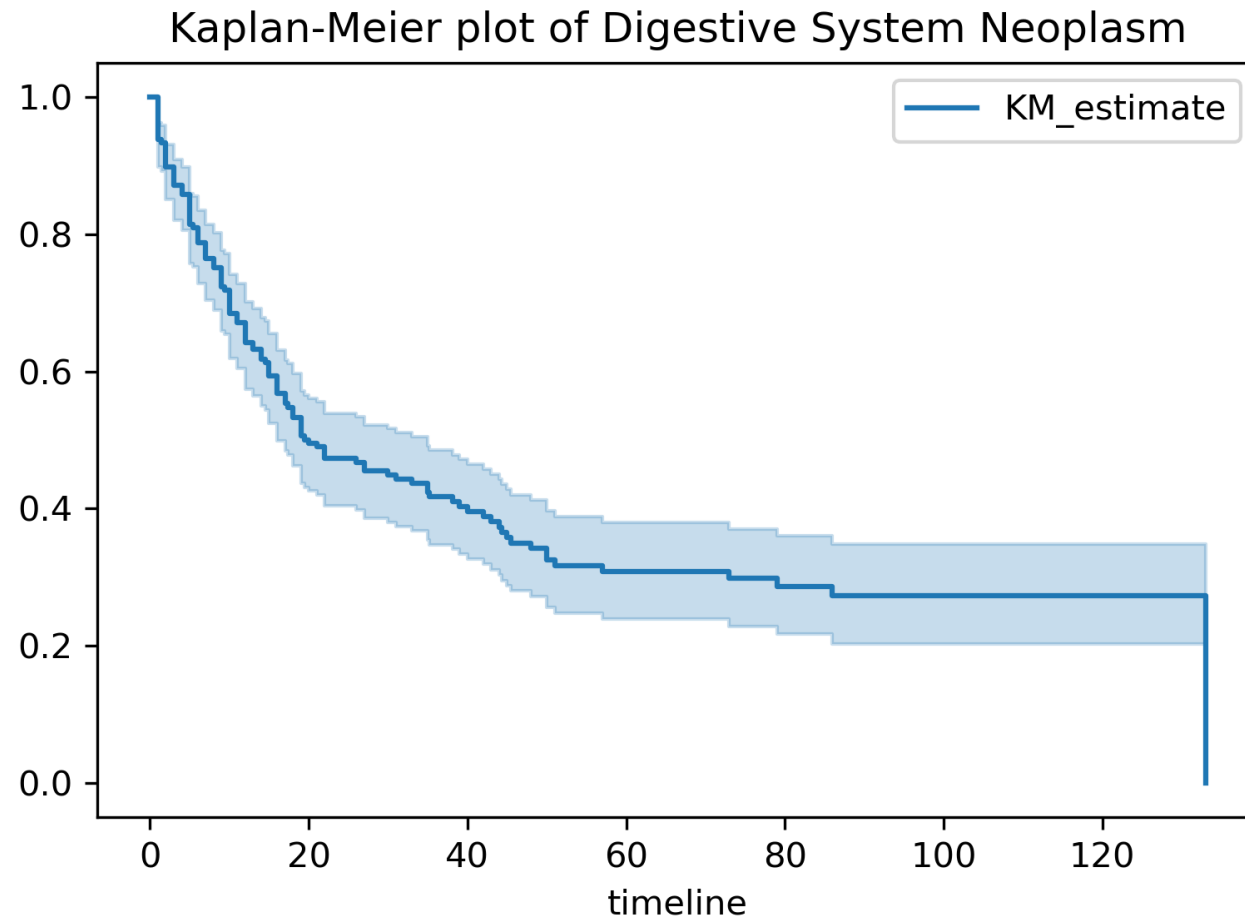


Survival Analysis of Digestive System Neoplasms

Merve Güngör & Angela Topic

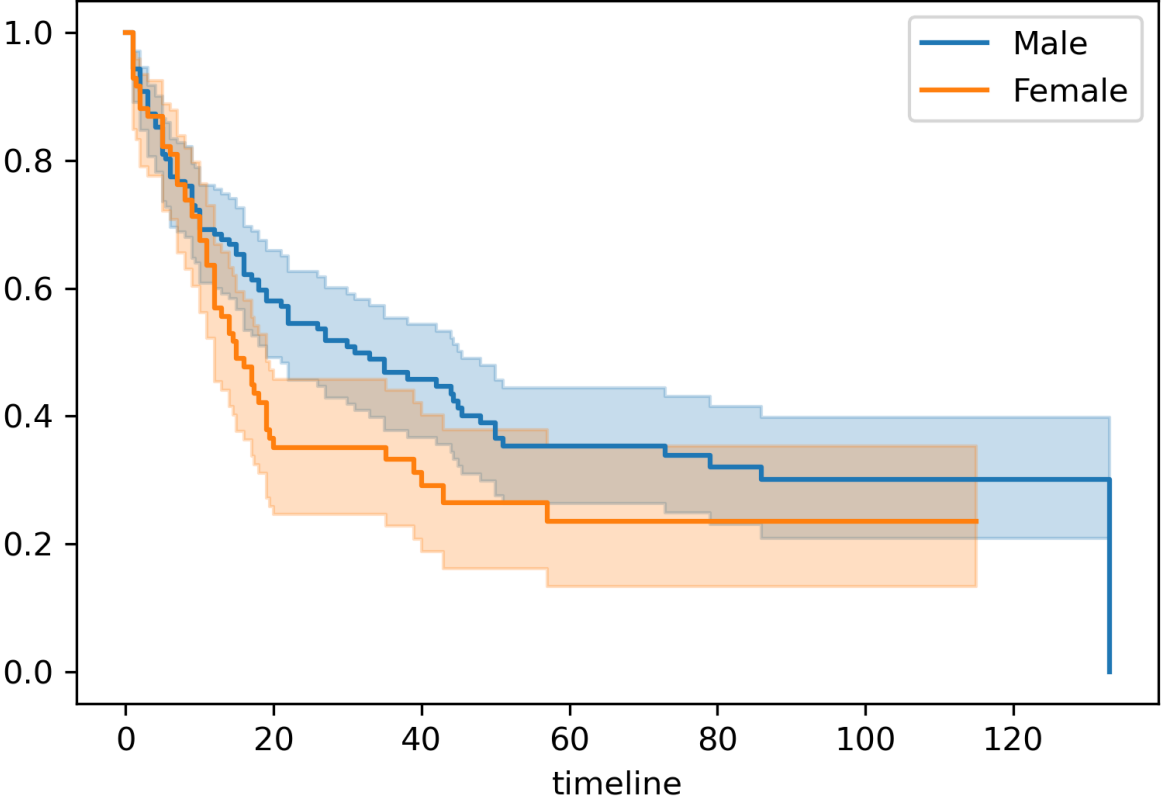
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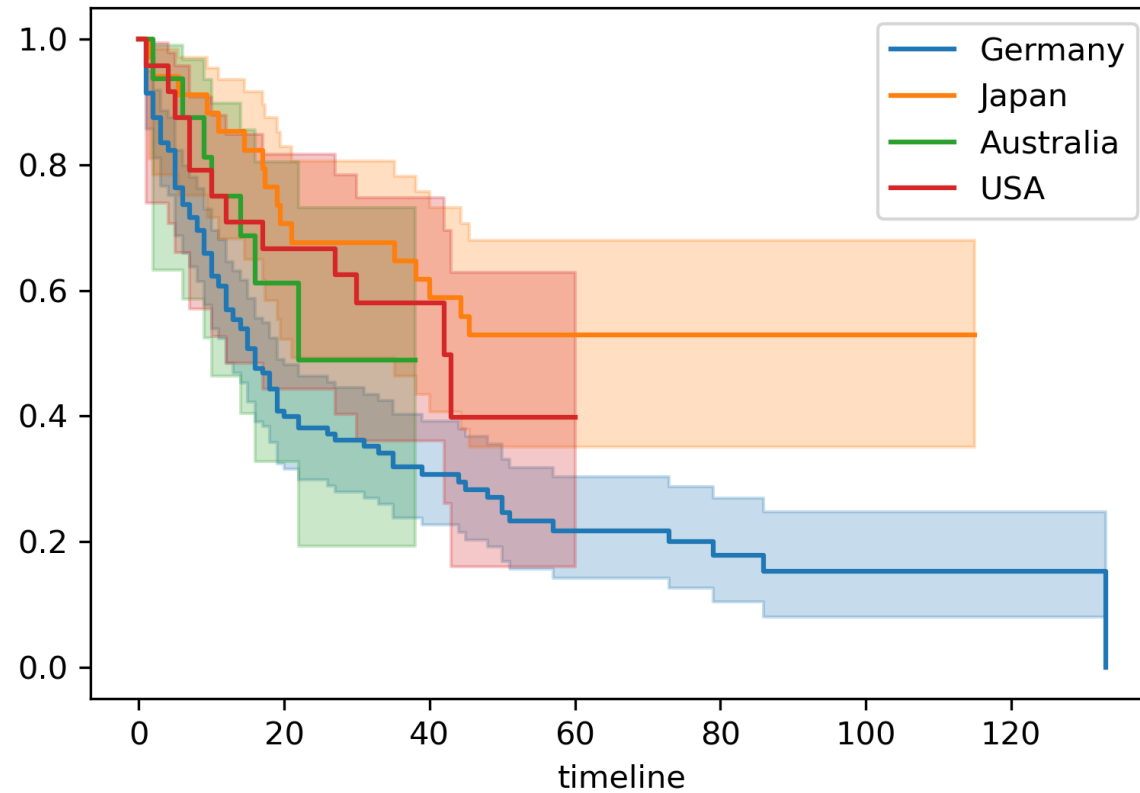
The probability to survive is smaller in the first 20 months after the disease onset.

Kaplan-Meier plot of Digestive System Neoplasm (Male vs. Female)



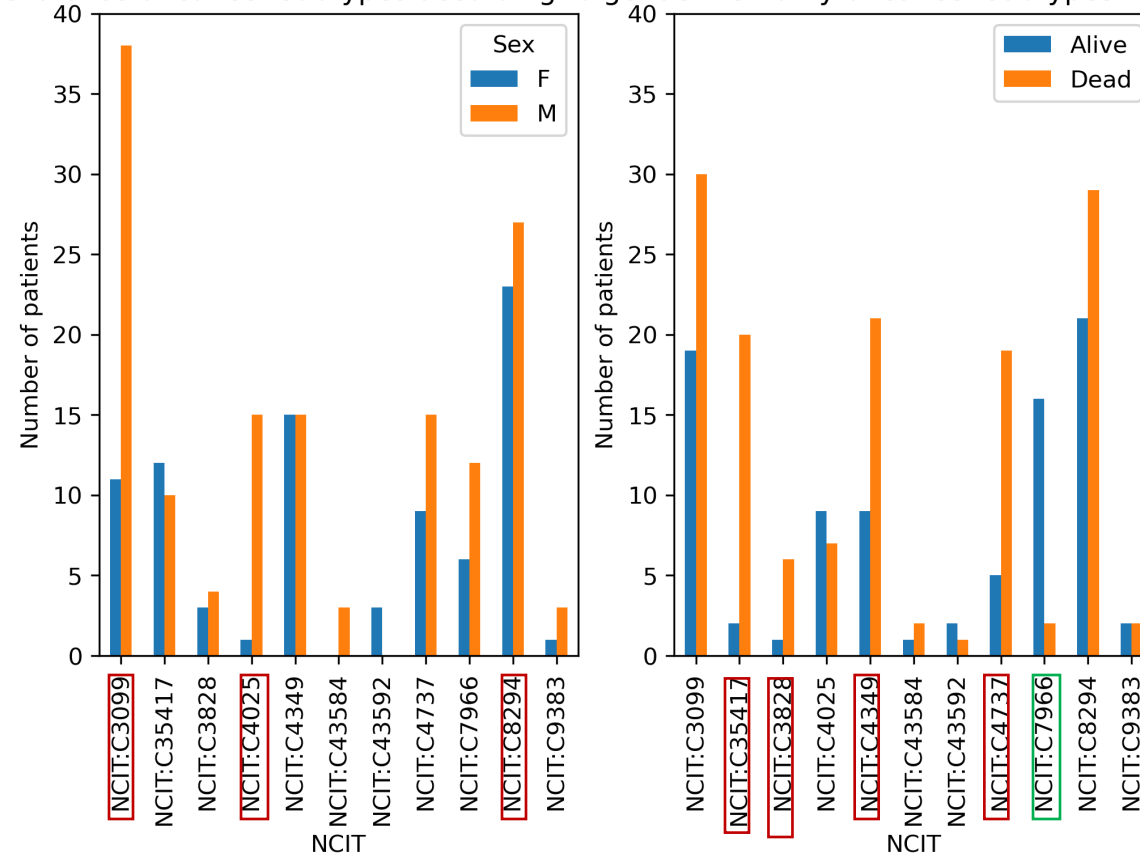
Probability of survival in females is slightly lower than in males suffering from digestive system neoplasm.

Kaplan-Meier plot of Digestive System Neoplasm in different countries



Looking at the plot it seems that the patients in Germany have the highest lethality but it was also the biggest patient group with the longest follow up.

Prevalence of cancer subtypes according to gender Lethality of cancer subtypes



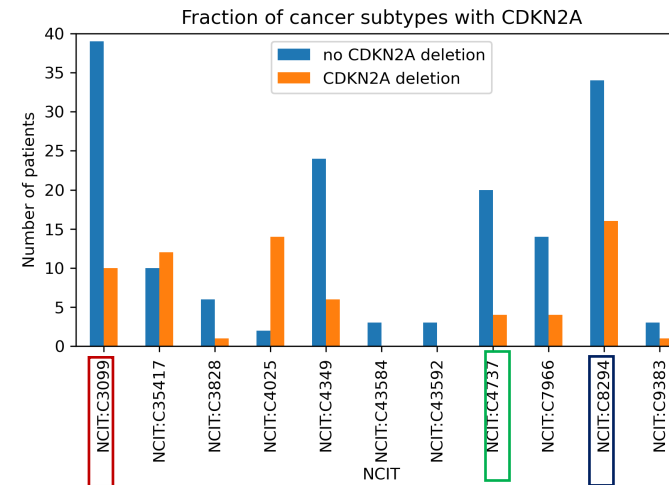
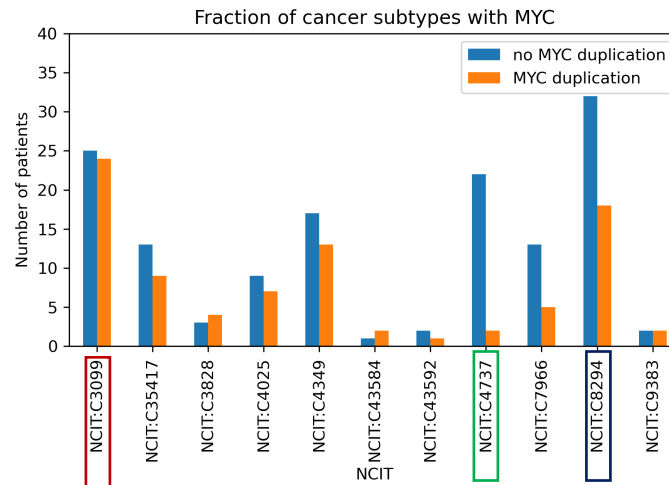
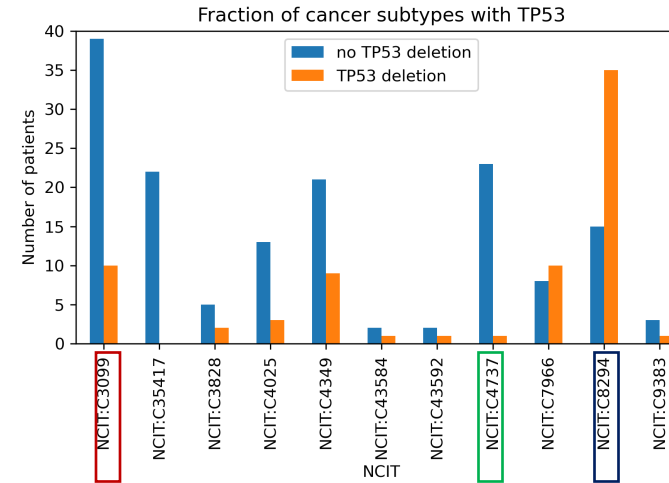
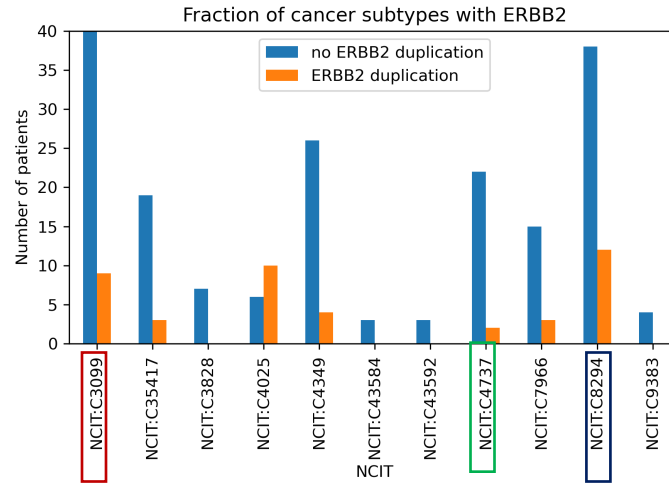
* **Hepatocellular Carcinoma (NCIT:C3099)** and **Pancreatic adenocarcinoma (NCIT:C8294)**: are more common than the other cancer subtypes.

* In plot 1: overall more male individuals affected especially **Hepatocellular Carcinoma** and **Esophageal adenocarcinoma (NCIT:C4025)**

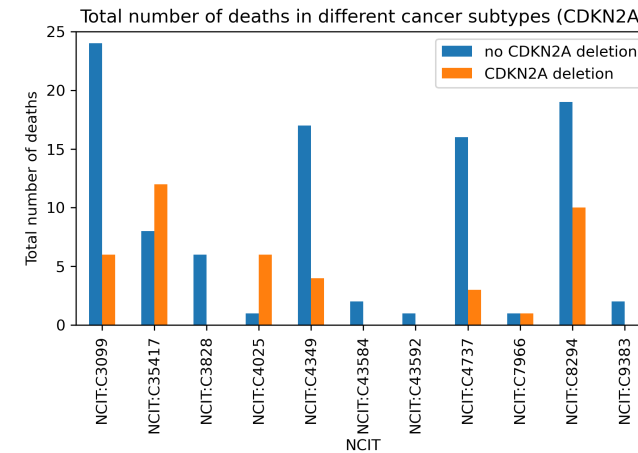
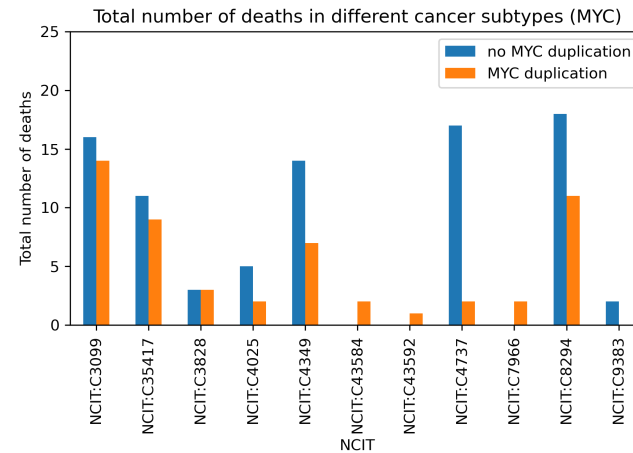
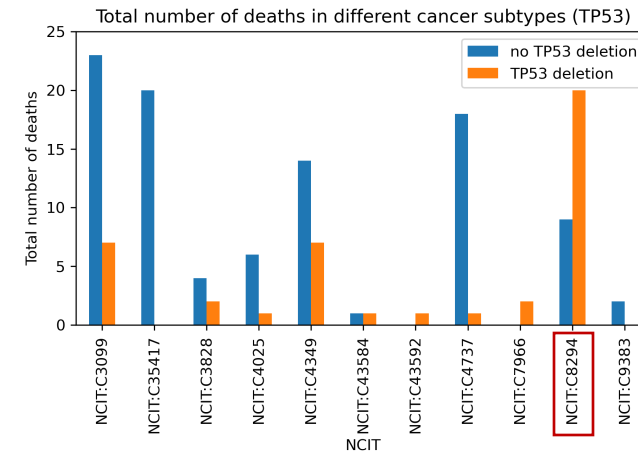
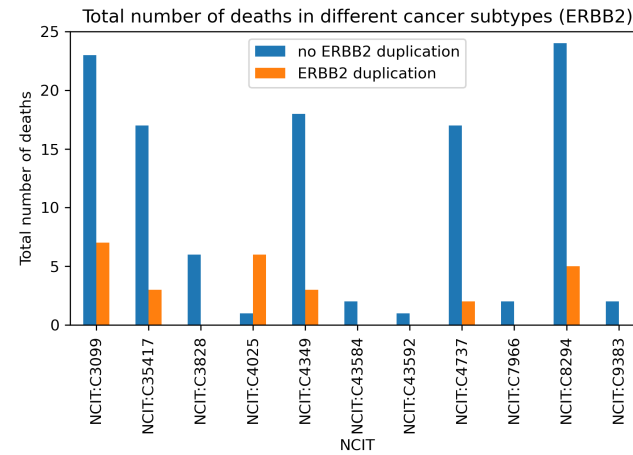
→ Might be due to the tendency of men to have an unhealthier lifestyle than women.

* Plot 2: **Intrahepatic cholangiocarcinoma (NCIT:C35417)**, **combined hepatocellular carcinoma and cholangiocarcinoma (NCIT:C3828)**, **Colon adenocarcinoma (NCIT:C4349)** and **Enteropathy type T.cell lymphoma (NCIT:C4737)** seem to have a higher lethality than others.

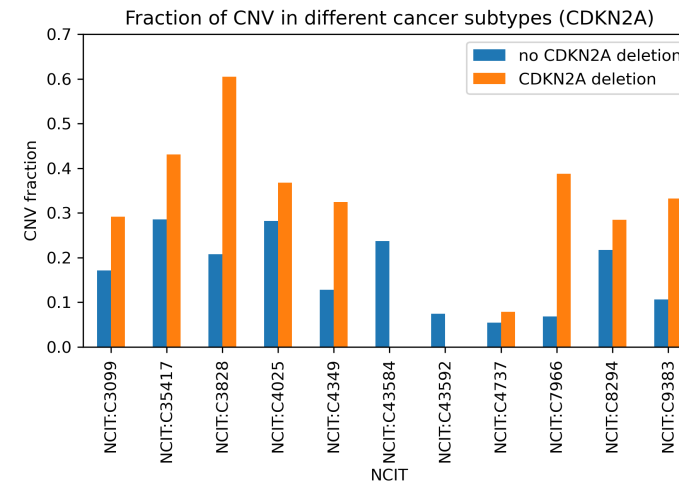
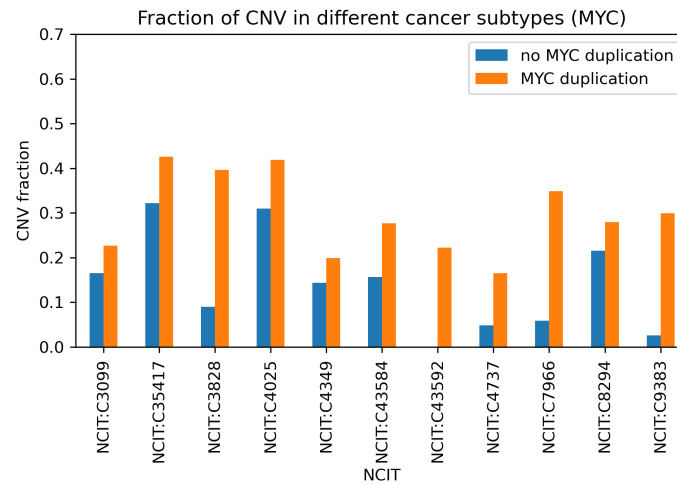
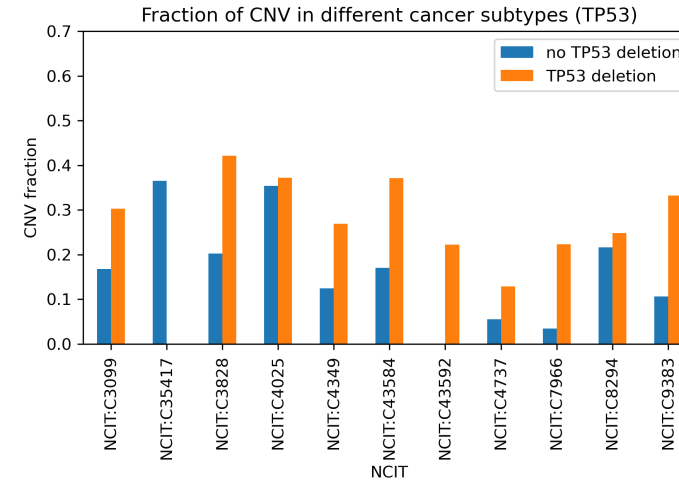
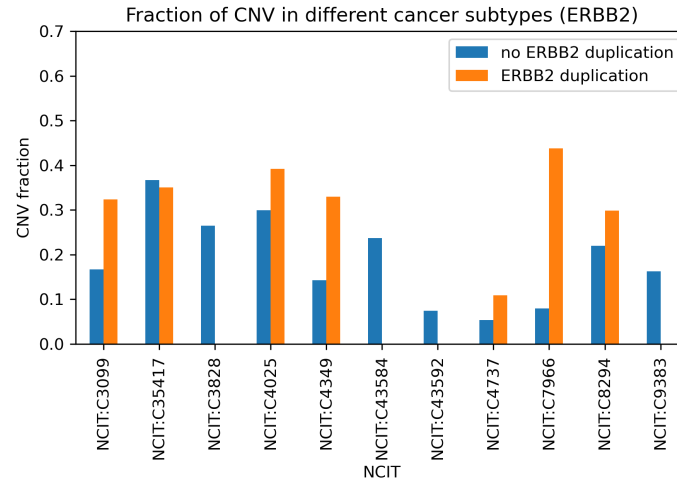
* **Colon Mucinous Adenocarcinoma (NCIT:C7966)** seems to have a very good prognosis.



- * **Hepatocellular carcinoma (NCIT:C3099)**: Only higher occurrence of MYC duplication detected (~50% of samples); other dup/del of the genes of interest are less likely to be involved in this disease.
- * **Enteropathy type T-cell lymphoma (NCIT:C4737)**: Only rare detection of the duplications or deletions in Gol
- * **Pancreatic adenocarcinoma (NCIT:C8294)**: High duplication of TP53 detected.



Pancreatic adenocarcinoma (NCIT:C8294): High number of deaths with this TP53 duplication



The duplication or deletion of the Gols seem to lead to a higher CNV fraction.