This cohort study investigates if patients with mantle cell lymphoma, a rare and aggressive subtype of non-Hodgkin lymphoma, are at a higher risk of a second primary malignancy (SPM). A SPM is a different type of cancer that develops after getting treated or not for a prior cancer and is considered to affect the prognosis of the patients. In this study, we investigate colorectal cancer (CRC) as SPM compared to general population controls. The start of CRC as SPM is defined as the day of the first ICD code starting by C18, C19, or C20. End of follow-up of the study is 2019-12-31.

The data can be found in 3 files.

Demographic\_dta.txt contains 7 variables:

* Id.number: The number identifying the person
* Start.of.flwp: Start of follow-up.
* Gender: 1= Male, 2= Female
* Age: The person’s age
* Birthday: The person’s birthday
* Date.of.Death: The day the person died
* Date.of.Migration: The day the person migrated.

Register\_dta.txt contains 3 variables:

* Id.number: The number identifying the person
* ICD.codes: The list of ICD codes assigned at a specific date.
* Date.of.ICD.codes: The date the ICD codes were assigned

Exposure\_dta.txt contains 2 variables:

* ID\_Number: The number identifying the person
* Exposure: Whether the person is a MCL patient or a control

Present all requested results in the table below. You can use any software you like. How would you interpret these results? Write them down in a scientific way below the table (max 10 lines).

Also paste the syntax from your calculations at the bottom of this document.

Name this document *ApplicantName\_mcl\_test.doc* and upload it through the recruitment system with your other documents.

|  |  |  |
| --- | --- | --- |
|  | **Controls** | **MCL patients** |
| Number of persons  Number of person years |  |  |
| Number of events |  |  |
| Incidence rate per 1000 PY (95% CI) |  |  |
| * Unadjusted HR (95% CI) | 1 (Ref.) |  |
| * Adjusted\* HR (95% CI) | 1 (Ref.) |  |
|  | |  |  |

\*Adjusted for age and sex