

Rapport préliminaire d'analyses statistiques

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29 Mai 2017

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1 Objectives

The primary objective of the study was to assess the survival, the risk of relapse and GVHD of patients who underwent allogeneic stem-cell transplantation (alloSCT) for aggressive T-cell lymphomas. The second objective was to determine the variables associated with these outcomes.

2 Methods

A retrospective analysis was conducted. A descriptive analysis of the variables recorded was performed. Different endpoints were defined : death, relapse ,Event-free survival(EFS) and Treatment related mortality (TRM).

Survival curves were estimated using Kaplan-Meier product-limit estimator. Factors associated with overall survival were analyzed using Cox proportional hazards models. The proportional hazards assumption was checked by examination of Schoenfeld residuals. For the different endpoints, univariable analyses were first carried out, then a multivariable analysis was used where all factors with P-value < 0.15 in the univariable analyses were considered. Factors were then sequentially removed from the adjusted model with a P-value cut- at 0.05. Survival is presented as estimate and 95% confidence interval (95% CI).

Competing risk survival analysis methods were applied to estimate the cumulative incidence (CIF) of developing events over time from alloSCT. These methods allow for the fact that a patient may experience an event which is different from that of interest. These events are known as competing risk events, and may preclude the onset of the event of interest, or may modify the probability of the onset of that event. In particular, a transplanted patient may die before a relapse occurs. To test CIF between histopathologic groups we the test proposed by Gray.

3 Results

3.1 Descriptive results

Parameters	Values	subtypes												p-value
		N	Statistics*	N	Statistics*	N	Statistics*	N	Statistics*	N	Statistics*	N	Statistics*	
Age at diagnostic		110	NOS	84	AITL	43	ALCL	16	ATLL	16	NK/T nasal	17	Others	0.0001
		110	48.5 [38;55]	84	53 [43;57.25]	43	36 [23;49]	16	41 [30.75;45.5]	16	39.5 [34.75;48]	17	38 [33;45]	
Patient sex	Female	33	30 %	27	32.14 %	17	39.53 %	5	31.25 %	4	25 %	9	52.94 %	0.45
	Male	77	70 %	57	67.86 %	26	60.47 %	11	68.75 %	12	75 %	8	47.06 %	