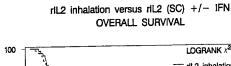
Table 3. Patient characteristics

		INH IL-2 treatment (n = 75)	SYST IL-2 treatment (n = 202)
Age	(years)		
_	Mean	58	57
	Median	58	57
	Range	28–75	35–75
Gender	Ţ.		
	Male (n, [%])	56 [75]	143 [71]
Nephre	ectomy		
•	Yes (n, [%])	70 [93]	167 [83]
Types	of metastases (n [%])		
	Lung only	29 [39]	75 [37]
	Lung and other metastases	46 [61]	127 [63]
Prior chemotherapy (n, [%])		4 [5]	13 [6]
Prior radiotherapy (n, [%])		5 [6]	38 [19]
IL-2 tro	eatment (n, [%])		
	Monotherapy	45 [60]	64 [32]
	Combinated therapy with IFN- α	30 [40]	138 [68]
Risk fa	actors		
	ECOG status (n, [%])		
	0	4 [5]	91 [45]
	1	64 [86]	111 [51]
	2	7 [9]	9 [4]
Diagno	osis-to-treatment interval (months)		
	Mean	29	24
	Median	10	8
	Range	0–163	0–199
	< 24 months (n, [%])	51 [68]	144 [71]
	> 24 months (n, [%])	24 [32]	58 [29]



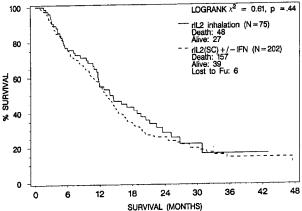


Fig. 1. Kaplan-Meier survival analysis of patients with metastatic renal cell carcinoma treated with INH or SYST IL-2. Abscissa: survival time (months). Ordinate: percentage of surviving patients. Fu – follow-up.

Patient survival

A Kaplan-Meier curve depicting the survival of patients treated with INH IL-2 versus SYST IL-2 is presented in Fig. 1. Univariate analysis of patient survival revealed that patients treated with INH IL-2 versus SYST IL-2 had comparable survival times. The median survival time was 13.8 months for those patients receiving INH IL-2 therapy, and 13.1 months for patients receiving SYST IL-2 therapy ($X^2 = 0.61$; P = 0.44). The one-year survival rates were 55% and 56% for patients treated with INH IL-2 and SYST IL-2, respectively. At two years, survival rates were 28% for the patients receiving INH IL-2 and 26% for the patients receiving SYST IL-2.

Multivariate analysis of patient survival using Cox's proportional hazards model was also performed, and the results are summarized in Table 6. Results of this analysis revealed that patients had a similar likelihood of survival whether they were treated with INH IL-2 or SYST IL-2 (risk ratio = 0.81, P = 0.23), and whether or not they had undergone a nephrectomy (risk ratio = 0.99, P = 0.97).

Table 4. Objective responses of patients with metastatic renal cell carcinoma to INH or SYST IL-2 treatment

Treatment group	Complete response n (%)	Partial response n (%)	Stable disease n (%)	Progressive disease n (%)
INH IL-2 $(n = 75)$	1 (1.3)	7 (9.4)	37 (49.3)	30 (40.0)
SYST IL-2 $(n = 202)$	9 (4.4)	36 (17.8)	71 (35.1)	79 (39.1)

Table 5. Objective responses of patients with metastatic renal cell carcinoma to treatment with INH or SYST IL-2 as a function of ECOG performance status

ECOG-performance status score	Complete response n $\left(\%\right)^*$	Partial Response n (%)*	Stable disease n (%)*	Progressive disease n (%)*
INH IL-2 treatment $(n = 75)$				
0 (n = 4)	-	1 (25.0)	2 (50.0)	1 (25.0)
1 (n = 64)	1 (1.6)	6 (9.4)	32 (50.0)	25 (39.0)
2(n=7)	-	-	3 (42.9)	4 (57.1)
Systemic IL-2 treatment (n =	202)			
0 (n = 91)	7 (7.7)	20 (22.0)	36 (39.6)	27 (29.7)
1 (n = 102)	2 (2.0)	15 (14.7)	32 (32.4)	47 (46.1)
2 (n = 9)		1 (11.1)	2 (22.2)	5 (55.6)

^{*}Percentages reflect the proportion of patients relative to the number of patients in the treatment group having a particular ECOG status score.

Table 6. Multivariate analysis of patient survival*

Variable	\mathbf{X}^2	P-value	Risk ratio**	95% CI
INH IL-2 therapy	1.44	0.23	0.81	0.57-1.14
Nephrectomy	0.0013	0.97	0.99	0.67-1.48
Risk factors				
ECOG performance status 1 or 2	5.65	0.02	1.47	1.07-2.02
$DTI \le 24$ months	18.8	0.0001	2.12	1.51-2.98
Lung metastases only	14.2	0.0002	0.54	0.40-0.767

^{*}Using Cox's proportional hazards model

However, patients with risk factors had a significantly lower likelihood of survival than patients without these risk factors. In this regard, patients with a poorer performance status (ECOG performance score of 1 or 2) were at significantly greater risk than patients with an ECOG performance score of 0 (risk ratio = 1.47, P = 0.02). Furthermore, patients characterized by a diagnosis-to-treatment interval of ≤ 24 months were at more than twice the risk of patients with a diagnosis-to-treatment interval of ≥ 24 months (risk ratio = 2.12, P = 0.0001). Additionally, patients with lung metastases only were at almost half the risk of patients who had lung and other metastases (risk ratio = 0.54, P = 0.0002).

Treatment-related toxicity

The proportion of patients experiencing toxicity related to INH IL-2 or SYST IL-2 treatment is summarized in Table 7. Although both treatment groups experienced toxicity with the therapy, the group receiving INH IL-2

treatment experienced substantially less toxicity than the group receiving SYST IL-2 treatment. Similar proportions of patients in the two treatment groups experienced Grade 1 and Grade 2 toxicities. However, 24% of patients treated with INH IL-2 versus 46% of patients treated with SYST IL-2 experienced Grade 3 toxicities. Furthermore, no patients receiving INH IL-2 treatment experienced Grade 4 toxicities, but 3% of patients receiving SYST IL-2 experienced such toxic events.

For patients receiving INH IL-2 treatment, the most common adverse event experienced was cough, which could be controlled by administering an antitussive agent. All patients treated with INH IL-2 required some form of medication to treat local irritation associated with INH therapy (e.g., cough suppressants or β_2 -adrenergic sympathomimetic agents [bronchodilators]). Patients did not receive medications for the prophylactic treatment of side effects, but did receive such medications as needed during INH IL-2 therapy. Notably, 50% of patients receiving

^{**}Interpreted relative to the characteristics of the reference patients, i.e., SYST IL-2 therapy, no nephrectomy, ECOG performance status = 0, DTI > 24 months, and lung and other metastases, respectively