

**Supplemental Table S1.** Univariate Analysis of Risk Factors Associated with Recurrence-Free Survival in Patients with Graves' Hyperthyroidism

Variable	Univariate analysis	
	HR (95% CI)	P value
Age <45 years (ref. $\geq 45$ )	1.32 (1.11–1.56)	0.001
Male sex	1.29 (1.08–1.54)	0.004
TED (ref. none)	1.27 (1.01–1.61)	0.041
Goiter (ref. grade 0) <sup>a</sup>	1.18 (1.00–1.40)	0.049
Smoking (ref. no smoking)	1.61 (1.16–2.23)	0.004
Initial fT4 >2.5 ng/dL (ref. $\leq 2.5$ )	1.02 (0.86–1.21)	0.801
Initial TRAb >8.9 IU/L (ref. $\leq 8.9$ )	1.03 (0.87–1.22)	0.741
Positive TRAb at ATD withdrawal (ref. negative)	1.91 (1.60–2.28)	<0.001
Pattern of TRAb changes		
Smooth disappearance	Reference	-
Fluctuating	1.75 (1.42–2.17)	<0.001
Smoldering	2.26 (1.85–2.76)	<0.001
Treatment duration, mo	1.38 (1.16–1.63)	<0.001
TSH normalization, mo	1.01 (1.00–1.01)	0.036

Total patients (group 1+group 2)=1,235.

HR, hazard ratio; CI, confidence interval; TED, thyroid eye disease; fT4, free thyroxine; TRAb, thyrotropin receptor antibody; ATD, antithyroid drug; TSH, thyroid-stimulating hormone.

<sup>a</sup>World Health Organization goiter classification system: grade 0, no goiter; grade 1, thyroid palpable but not visible; and grade 2, thyroid visible with the neck in the normal position.