



Supplementary Figure S1. Typical endoscopic views (recurrence and nonrecurrence) of patients who underwent ESS, obtained at 6 weeks and 24 weeks postoperatively.

Supplementary Table S1. Kaplan-Meier analysis of the recovery rate (%) (95 % confidence interval) and Log-rank tests after 24 weeks follow-up

Time (week)	Total (n = 1,047)	Low (n = 310)	Middle (n = 399)	High (n = 338)
12	19.1 (18.3–19.9)	3.2 (2.1–4.9)	30.9 (29.2–31.8)	4.7 (3.1–5.9)
24	44.7 (43.7–45.7)	13.5 (12.8–14.2)	90.4 (89.6–91.2)	31.7 (30.7–32.7)

Supplementary Table S2. Multivariable Cox regression model of an interaction between socioeconomic status (SES) and nasal polyposis, medical insurance, and dietary patterns

Interaction	β	Wald	HR (95% CI)	P-Value
SES × nasal polyps	0.001	1.722	1.001 (0.999–1.003)	0.189
SES × medical insurance	−0.056	2.144	0.946 (0.877–1.019)	0.143
SES × dietary patterns	0.092	0.601	1.097 (0.868–1.385)	0.438

Note. HR, hazard ratio; NA, not applicable.

Supplementary Table S3. Univariable and multivariable Cox regression model of factors associated with all-cause recurrence (All chronic sinusitis patients lost to follow-up are regarded as recovery)

Characteristics	All-cause non-recovery	
	Adjusted HR* (95% CI)	P-value
Socioeconomic status		
Low	8.77 (7.09–10.87)	< 0.001
High	7.19 (5.95–8.70)	< 0.001
Middle	1 (ref)	
Age at operation, years	0.99 (0.98–1.00)	0.111
Sex		
Males	0.97 (0.83–1.13)	0.722
Females	1 (ref)	
Nasal polyposis		
Without	0.88 (0.74–1.05)	0.026
With	1 (ref)	
Dietary patterns		
Vegetarian-based	1.52 (0.98–2.51)	0.747
Meat-based	0.64 (0.54–1.54)	0.058
Mixed	1 (ref)	
Stressful work or family events during the first 1 year		
No	0.99 (0.80–1.23)	0.919
Yes	1 (ref)	
Before surgery		
FeNO, ppb	1.00 (1.00–1.00)	0.527
FnNO, ppb	1.00 (1.00–1.00)	0.224
Hb, g/L	1.00 (1.00–1.01)	0.113
IgE, IU/mL	1.00 (1.00–1.00)	0.538
Medical insurance		
No	1.23 (1.06–1.56)	0.023
Yes	1 (ref)	

Note. CRS, chronic sinusitis; FeNO, fractional exhaled nitric oxide; FnNO, fractional nasal nitric oxide; HR, hazard ratio; NA, not applicable. *Adjusted for age at operation, sex, BMI, nasal polyposis, smoking, dietary patterns, stressful work or family events during the first 1 year, FeNO, FnNO, Hb, and medical insurance.