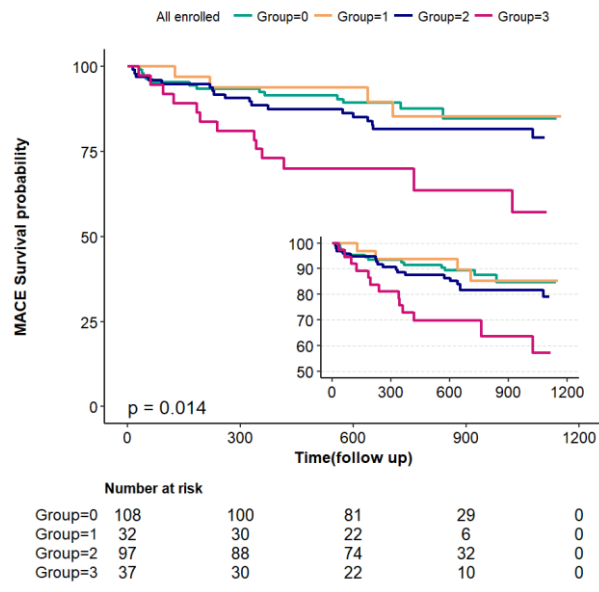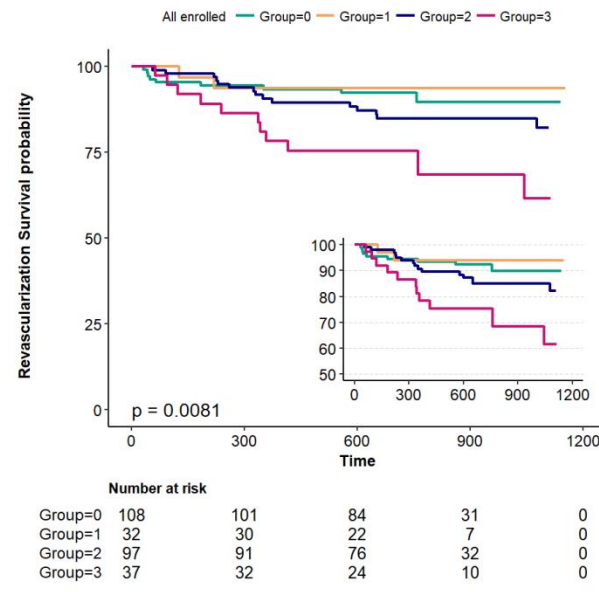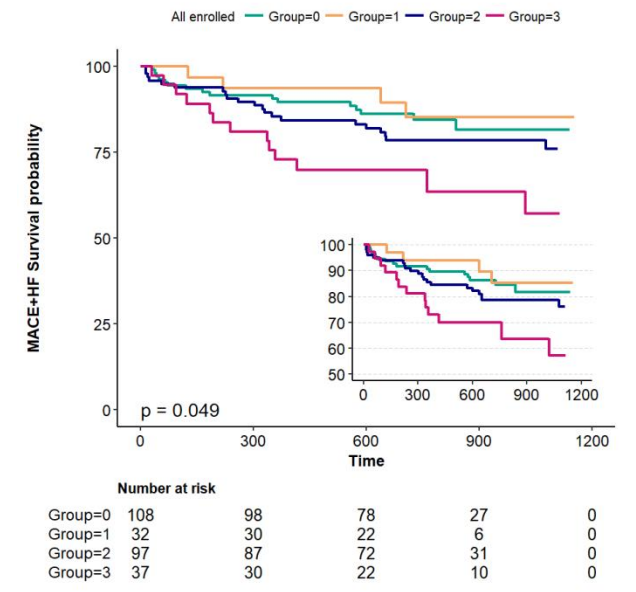Supplement Figure 1 Kaplan-Meier curves showing cumulative different endpoints (including MACE, revascularization and composite endpoints including MACE, revascularization and heart failure) rates for up to median 1.98 years stratified by the level of rSS and TCFA characteristic among all enrolled patients.

Group=0 represent the patients with low level of rSS (rSS≤4) and absence of TCFA in the culprit lesion.

Group=1 represent the patients with low level of rSS (rSS≤4) and present of TCFA in the culprit lesion.

Group=2 represent the patients with high level of rSS (rSS>4) and absence of TCFA in the culprit lesion.

Group=3 represent the patients with high level of rSS (rSS>4) and present of TCFA in the culprit lesion.

A Kaplan-Meier curves showing cumulative MACE rates for up to median 1.98 years stratified by the level of rSS and TCFA characteristic among all enrolled patients.

B Kaplan-Meier curves showing cumulative revascularization rates for up to median 1.98 years stratified by the level of rSS and TCFA characteristic among all enrolled patients.

C Kaplan-Meier curves showing cumulative composite endpoints including MACE, revascularization and heart failure rates for up to median 1.98 years stratified by the level of rSS and TCFA characteristic among all enrolled patients.

A
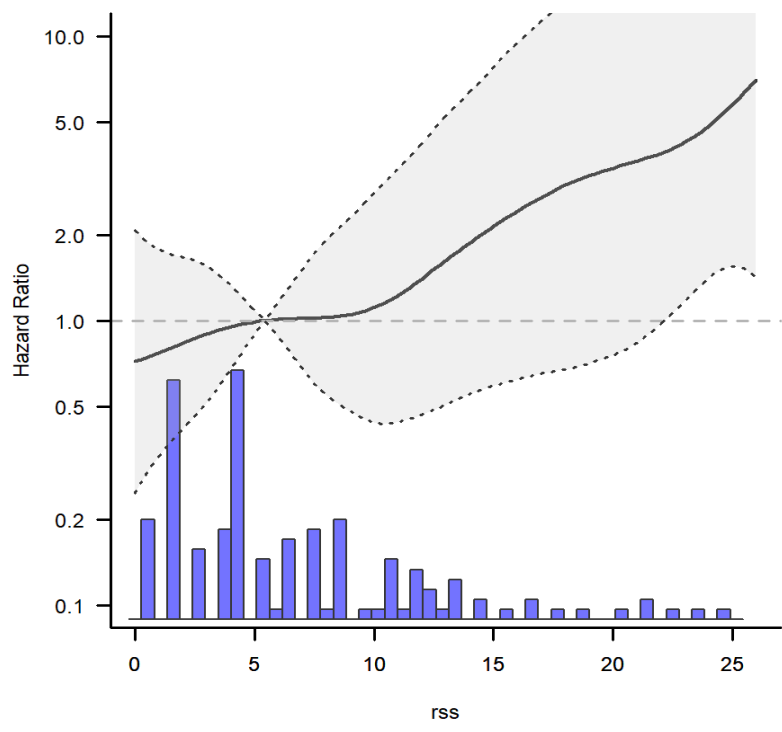
B
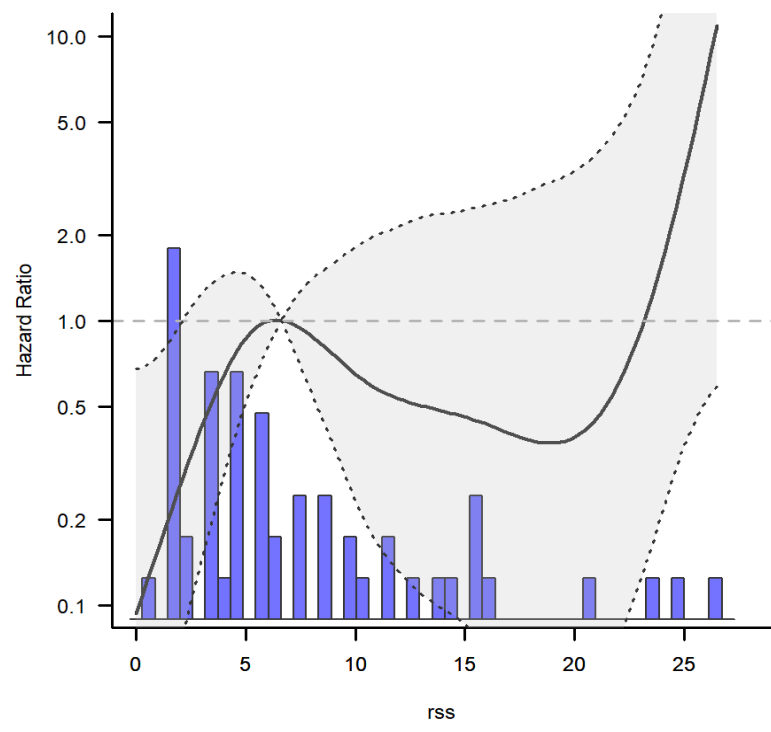
Supplement Figure 2 COX regression fitting curve

The confounding factors include smoking, hypertension, diabetes mellitus, hyperlipidemia and sex.

rSS, residual syntax score

While the hazard ratio was grow by the increase rSS among the patients without TCFA (A), the tendency was double swing by the increase rSS among the patients with TCFA (B).

Supplement Fig. 3 Forest plot

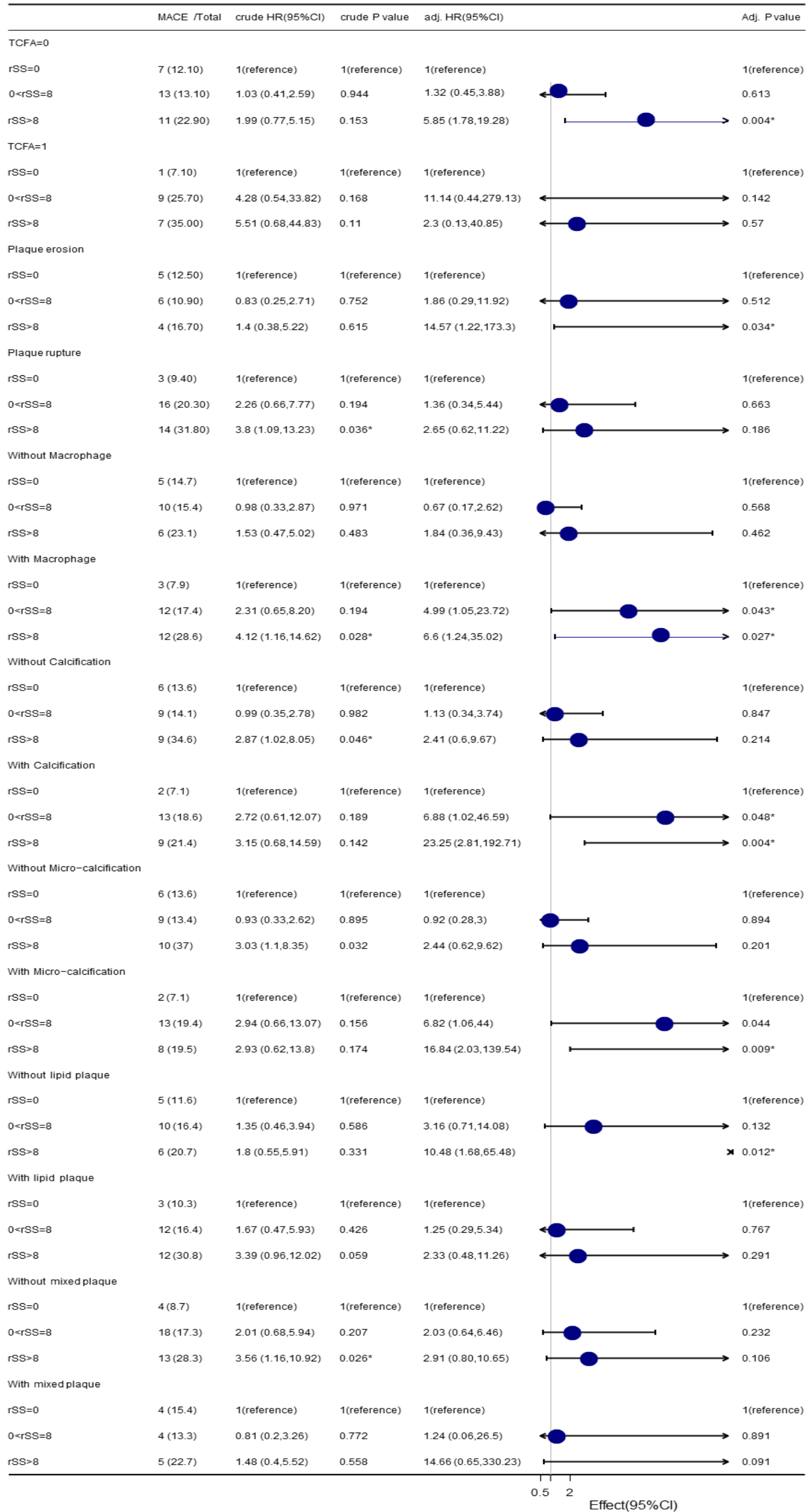|	MACE /Total	crude HR(95%CI)	crude P value	adj. HR(95%CI)	Adj. P value
TCFA=0					
rSS=0	7 (12.10)	1(reference)	1(reference)	1(reference)	1(reference)
0<rSS=8	13 (13.10)	1.03 (0.41,2.59)	0.944	1.32 (0.45,3.88)	0.613
rSS>8	11 (22.90)	1.99 (0.77,5.15)	0.153	5.85 (1.78,19.28)	0.004*
TCFA=1					
rSS=0	1 (7.10)	1(reference)	1(reference)	1(reference)	1(reference)
0<rSS=8	9 (25.70)	4.28 (0.54,33.82)	0.168	11.14 (0.44,279.13)	0.142
rSS>8	7 (35.00)	5.51 (0.68,44.83)	0.11	2.3 (0.13,40.85)	0.57
Plaque erosion					
rSS=0	5 (12.50)	1(reference)	1(reference)	1(reference)	1(reference)
0<rSS=8	6 (10.90)	0.83 (0.25,2.71)	0.752	1.86 (0.29,11.92)	0.512
rSS>8	4 (16.70)	1.4 (0.38,5.22)	0.615	14.57 (1.22,173.3)	0.034*
Plaque rupture					
rSS=0	3 (9.40)	1(reference)	1(reference)	1(reference)	1(reference)
0<rSS=8	16 (20.30)	2.26 (0.66,7.77)	0.194	1.36 (0.34,5.44)	0.663
rSS>8	14 (31.80)	3.8 (1.09,13.23)	0.036*	2.65 (0.62,11.22)	0.186
Without Macrophage					
rSS=0	5 (14.7)	1(reference)	1(reference)	1(reference)	1(reference)
0<rSS=8	10 (15.4)	0.98 (0.33,2.87)	0.971	0.67 (0.17,2.62)	0.568
rSS>8	6 (23.1)	1.53 (0.47,5.02)	0.483	1.84 (0.36,9.43)	0.462
With Macrophage					
rSS=0	3 (7.9)	1(reference)	1(reference)	1(reference)	1(reference)
0<rSS=8	12 (17.4)	2.31 (0.65,8.20)	0.194	4.99 (1.05,23.72)	0.043*
rSS>8	12 (28.6)	4.12 (1.16,14.62)	0.028*	6.6 (1.24,35.02)	0.027*
Without Calcification					
rSS=0	6 (13.6)	1(reference)	1(reference)	1(reference)	1(reference)
0<rSS=8	9 (14.1)	0.99 (0.35,2.78)	0.982	1.13 (0.34,3.74)	0.847
rSS>8	9 (34.6)	2.87 (1.02,8.05)	0.046*	2.41 (0.6,9.67)	0.214
With Calcification					
rSS=0	2 (7.1)	1(reference)	1(reference)	1(reference)	1(reference)
0<rSS=8	13 (18.6)	2.72 (0.61,12.07)	0.189	6.88 (1.02,46.59)	0.048*
rSS>8	9 (21.4)	3.15 (0.68,14.59)	0.142	23.25 (2.81,192.71)	0.004*
Without Micro−calcification					
rSS=0	6 (13.6)	1(reference)	1(reference)	1(reference)	1(reference)
0<rSS=8	9 (13.4)	0.93 (0.33,2.62)	0.895	0.92 (0.28,3)	0.894
rSS>8	10 (37)	3.03 (1.1,8.35)	0.032	2.44 (0.62,9.62)	0.201
With Micro−calcification					
rSS=0	2 (7.1)	1(reference)	1(reference)	1(reference)	1(reference)
0<rSS=8	13 (19.4)	2.94 (0.66,13.07)	0.156	6.82 (1.06,44)	0.044
rSS>8	8 (19.5)	2.93 (0.62,13.8)	0.174	16.84 (2.03,139.54)	0.009*
Without lipid plaque					
rSS=0	5 (11.6)	1(reference)	1(reference)	1(reference)	1(reference)
0<rSS=8	10 (16.4)	1.35 (0.46,3.94)	0.586	3.16 (0.71,14.08)	0.132
rSS>8	6 (20.7)	1.8 (0.55,5.91)	0.331	10.48 (1.68,65.48)	0.012*
With lipid plaque					
rSS=0	3 (10.3)	1(reference)	1(reference)	1(reference)	1(reference)
0<rSS=8	12 (16.4)	1.67 (0.47,5.93)	0.426	1.25 (0.29,5.34)	0.767
rSS>8	12 (30.8)	3.39 (0.96,12.02)	0.059	2.33 (0.48,11.26)	0.291
Without mixed plaque					
rSS=0	4 (8.7)	1(reference)	1(reference)	1(reference)	1(reference)
0<rSS=8	18 (17.3)	2.01 (0.68,5.94)	0.207	2.03 (0.64,6.46)	0.232
rSS>8	13 (28.3)	3.56 (1.16,10.92)	0.026*	2.91 (0.80,10.65)	0.106
With mixed plaque					
rSS=0	4 (15.4)	1(reference)	1(reference)	1(reference)	1(reference)
0<rSS=8	4 (13.3)	0.81 (0.2,3.26)	0.772	1.24 (0.06,26.5)	0.891
rSS>8	5 (22.7)	1.48 (0.4,5.52)	0.558	14.66 (0.65,330.23)	0.091

0.5 2

Effect(95%CI)