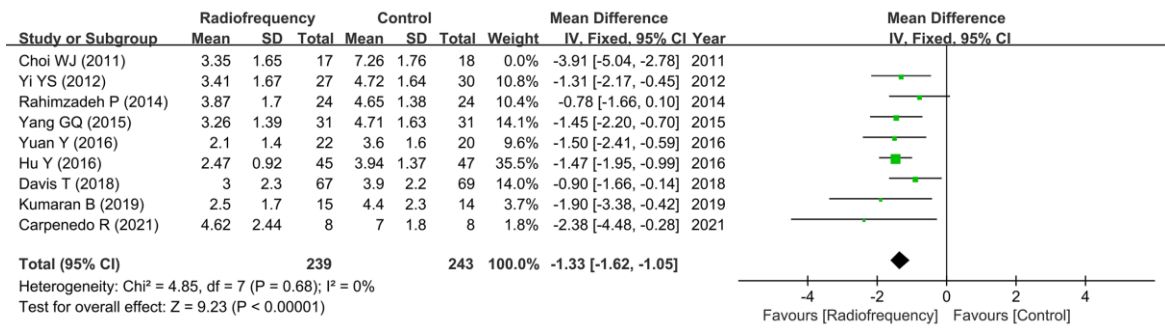


**Supplementary Figure 1.** Forest plots for the assessment of OKS score between the radiofrequency group and control group. At (a) 1-2 weeks, (b) 4 weeks, and (c) 12 weeks. OKS, Oxford knee score; SD, standard deviation; CI, confidence interval.



**Supplementary Figure 2.** Sensitivity analysis for the assessment of pain scores at 4

weeks after treatment. SD, standard deviation; CI, confidence interval.

**Supplementary Table 1.** Subgroup Analysis of the WMD of pain scores between two groups at 4 weeks after treatment

Outcomes	No. of trials	WMD (95% CI)	Z-value	P	Heterogeneity	
					I <sup>2</sup> (%)	P
RF mode						
RFA	3	-2.17 [-3.61, -0.73]	2.95	0.003	87	0.005
Others	6	-1.31 [-1.64, -0.99]	7.88	<0.001	0	0.45
Location						
Asia	6	-1.66 [-2.32, -1.01]	5.00	<0.001	75	0.001
Others	3	-1.37 [-2.22, -0.52]	3.16	0.002	25	0.26
Site of radiofrequency						
Genicular nerve	4	-1.83 [-2.93, -0.72]	3.24	0.001	85	<0.001
Intra-articular	5	-1.41 [-1.77, -1.05]	7.62	<0.001	0	0.50
Diagnosed nerve block						
Yes	3	-2.37 [-4.53, -0.21]	2.15	0.03	90	<0.001
No	6	-1.38 [-1.69, -1.07]	8.78	<0.001	0	0.77
Sex ratio (female/male)						
< 2	5	-1.27 [-1.67, -0.87]	6.24	<0.001	12	0.34
≥ 2	2	-2.68 [-5.04, -0.32]	2.23	0.03	91	0.001
BMI						
< 30	3	-2.55 [-4.34, 0.77]	2.81	0.005	87	<0.001
≥ 30	2	-1.19 [-2.08, -0.30]	2.62	0.009	28	0.24

WMD, weighted mean difference; RF, radiofrequency; RFA, radiofrequency ablation; BMI, body mass index;

**Supplementary Table 2.** Subgroup Analysis of the WMD of pain scores between two groups at 12 weeks after treatment

Outcomes	No. of trials	WMD (95% CI)	Z-value	P	Heterogeneity	
					I <sup>2</sup> (%)	P
RF mode						
RFA	6	-2.26 [-2.89, -1.63]	7.02	<0.001	88	<0.001
Others	5	-1.12 [-2.21, -0.04]	2.03	0.04	76	0.002
Location						
Asia	8	-1.81 [-2.49, -1.14]	5.29	<0.001	91	<0.001
Others	3	-2.08 [-2.86, -1.30]	5.25	<0.001	11	0.33
Site of radiofrequency						
Genicular nerve	6	-2.32 [-2.95, -1.68]	7.16	<0.001	88	<0.001
Intra-articular	5	-1.04 [-1.98, -0.11]	2.19	0.03	70	0.009
Diagnosed nerve block						
Yes	3	-2.65 [-3.57, -1.73]	5.65	<0.001	37	0.20
No	8	-1.58 [-2.26, -0.90]	4.52	<0.001	91	<0.001
Sex ratio (female/male)						
< 2	5	-1.61 [-2.57, -0.65]	3.28	0.001	84	<0.001
≥ 2	4	-2.38 [-3.53, -1.23]	4.04	<0.001	90	<0.001
BMI						
< 30	2	-2.79 [-4.73, -0.84]	2.81	0.005	54	0.14
≥ 30	3	-2.41 [-2.72, 2.11]	15.46	<0.001	17	0.30

WMD, weighted mean difference; RF, radiofrequency; RFA, radiofrequency ablation; BMI, body mass index;