Supplementary Files
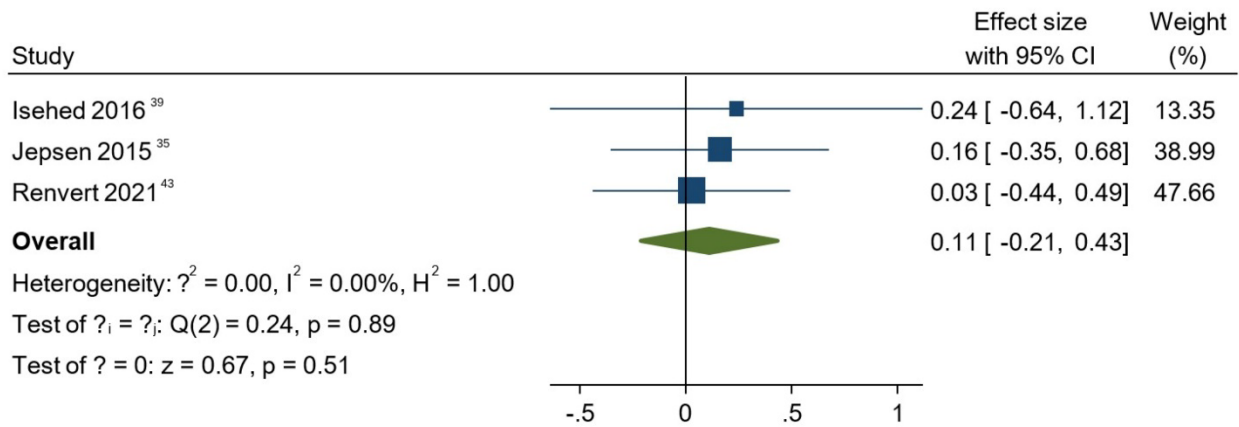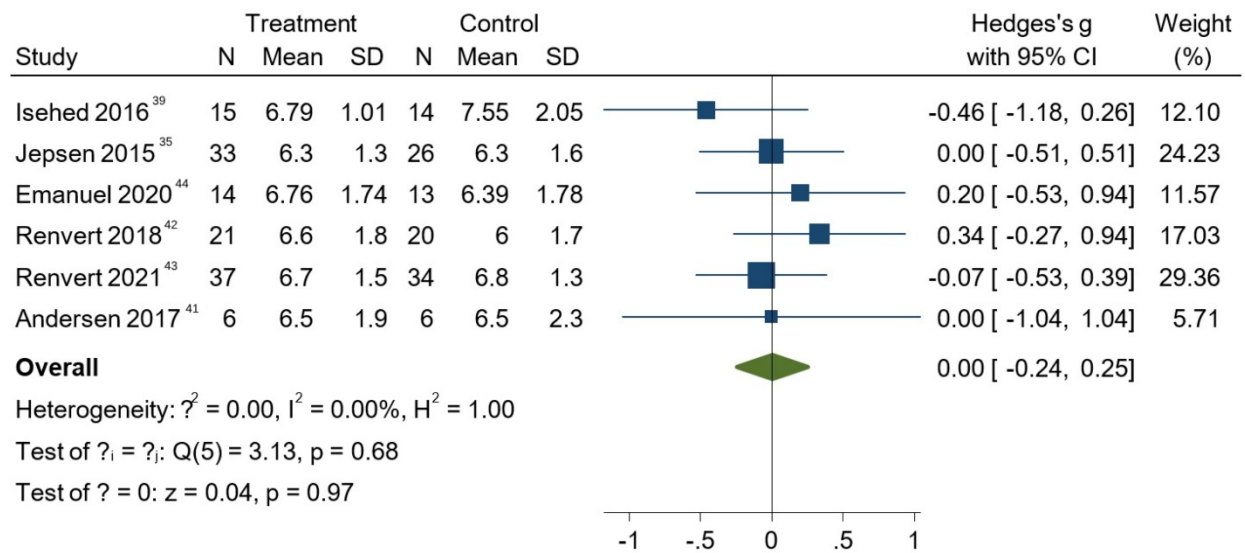

Figure S1. Meta-analysis for bleeding on probing at baseline among studies that compared using and not using bone grafts.

Figure S2. Meta-analysis for probing depth at baseline among studies that compared using and not using bone grafts.

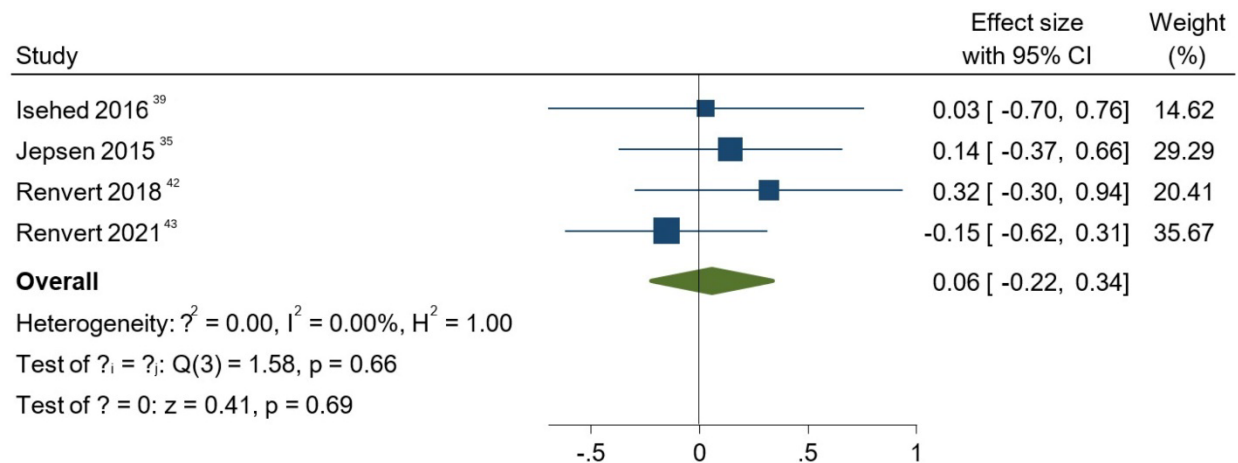| Study		Effect size with 95% CI	Weight (%)
Isehed 2016 [39]		0.03 [-0.70, 0.76]	14.62
Jepsen 2015 [35]		0.14 [-0.37, 0.66]	29.29
Renvert 2018 [42]		0.32 [-0.30, 0.94]	20.41
Renvert 2021 [43]		-0.15 [-0.62, 0.31]	35.67
Overall		0.06 [-0.22, 0.34]	
Heterogeneity: $\tau^2 = 0.00$, $I^2 = 0.00\%$, $H^2 = 1.00$			
Test of $\theta_i = \theta_j$: Q(3) = 1.58, p = 0.66			
Test of $\theta = 0$: z = 0.41, p = 0.69			

Random-effects REML model

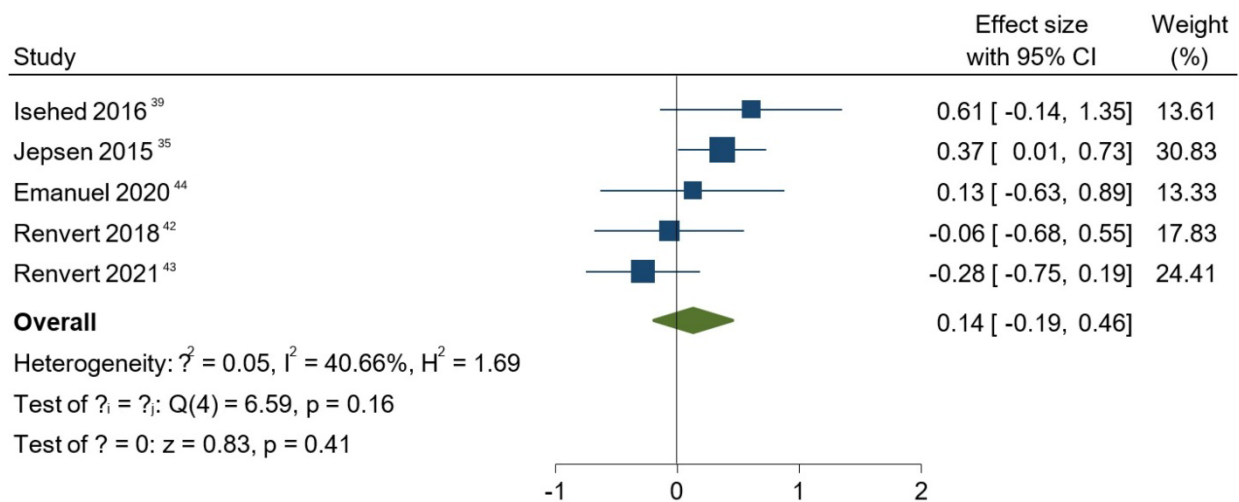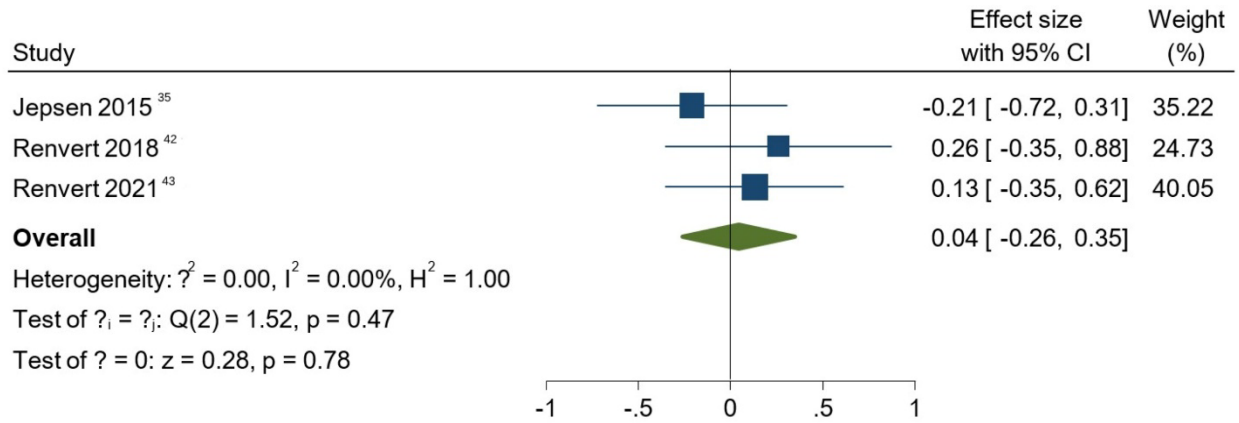**Figure S3.** Meta-analysis for plaque index at baseline among studies that compared using and not using bone grafts.

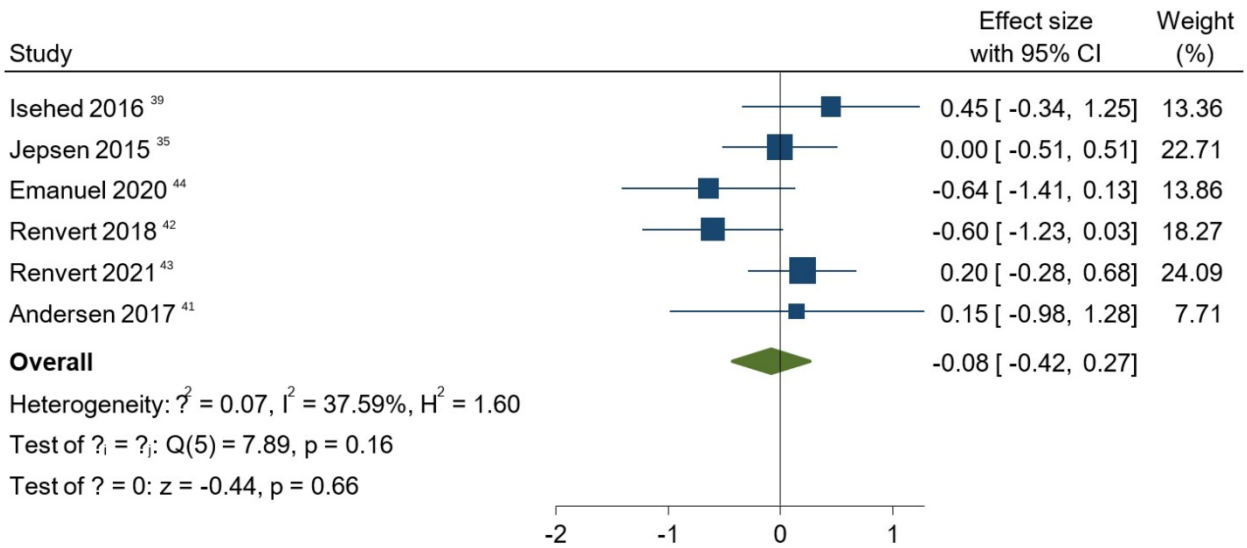| Study		Effect size with 95% CI	Weight (%)
Isehed 2016 [39]		0.61 [-0.14, 1.35]	13.61
Jepsen 2015 [35]		0.37 [0.01, 0.73]	30.83
Emanuel 2020 [44]		0.13 [-0.63, 0.89]	13.33
Renvert 2018 [42]		-0.06 [-0.68, 0.55]	17.83
Renvert 2021 [43]		-0.28 [-0.75, 0.19]	24.41
Overall		0.14 [-0.19, 0.46]	
Heterogeneity: $\tau^2 = 0.05$, $I^2 = 40.66\%$, $H^2 = 1.69$			
Test of $\theta_i = \theta_j$: Q(4) = 6.59, p = 0.16			
Test of $\theta = 0$: z = 0.83, p = 0.41			

Random-effects REML model

Figure S4. Meta-analysis for bone level at baseline among studies that compared using and not using bone grafts.

Study	Effect size with 95% CI	Weight (%)
Jepsen 2015 [35]	-0.21 [-0.72, 0.31]	35.22
Renvert 2018 [42]	0.26 [-0.35, 0.88]	24.73
Renvert 2021 [43]	0.13 [-0.35, 0.62]	40.05
Overall	0.04 [-0.26, 0.35]	

Heterogeneity: $\tau^2 = 0.00$, $I^2 = 0.00\%$, $H^2 = 1.00$
Test of $\theta_i = \theta_j$: Q(2) = 1.52, p = 0.47
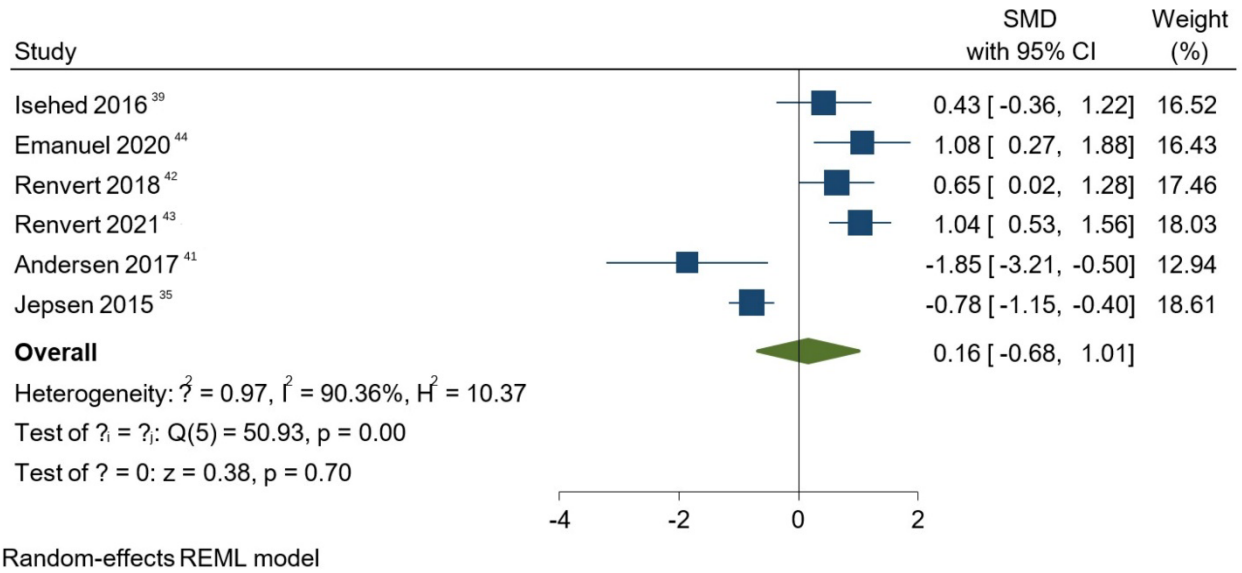Test of $\theta = 0$: z = 0.28, p = 0.78

Random-effects REML model

Figure S5. Meta-analysis for bleeding on probing at the one-year follow-up among studies that compared using and not using bone grafts.

Study	Effect size with 95% CI	Weight (%)
Isehed 2016 [39]	0.45 [-0.34, 1.25]	13.36
Jepsen 2015 [35]	0.00 [-0.51, 0.51]	22.71
Emanuel 2020 [44]	-0.64 [-1.41, 0.13]	13.86
Renvert 2018 [42]	-0.60 [-1.23, 0.03]	18.27
Renvert 2021 [43]	0.20 [-0.28, 0.68]	24.09
Andersen 2017 [41]	0.15 [-0.98, 1.28]	7.71
Overall	-0.08 [-0.42, 0.27]	

Heterogeneity: $\tau^2 = 0.07$, $I^2 = 37.59\%$, $H^2 = 1.60$
Test of $\theta_i = \theta_j$: Q(5) = 7.89, p = 0.16
Test of $\theta = 0$: z = -0.44, p = 0.66

Random-effects REML model

Figure S6. Meta-analysis for probing depth at the one-year follow-up among studies that compared using and not using bone grafts.

Figure S7. Meta-analysis for bone gain at the one-year follow-up among studies that compared using and not using bone grafts.