

Study	Method	Canine retraction data period	Participant characteristic	Canine retraction device Instrument	Outcome
Abbas 2016	Split-mouth RCT	3 months	Gender: N/A	Ni-Ti closed coil spring 150g	Adverse effects
			Age: 15-25	0.016 x 0.022 SS	
			Class 2 division 1	Piezotome	
Aboalnaga 2019	Split-mouth RCT	4 months	0 M; 18 F	Ni-Ti closed coil spring 150g	Adverse effects
			Age: 16-25	Wire: N/A	
			Angle class: N/A	Miniscrew	
Aksakalli 2016	Split-mouth RCT	6 months	4 M; 6 F	Elastic chain 150g	Adverse effects
			Age: N/A	0.016 x 0.022 SS	
			Class 2	Piezotome	
Al-A'athal 2022	Split-mouth RCT	3 months	AF group:	Ni-Ti closed coil spring	Adverse effects
			0 M; 12 F	0.019 x 0.025 SS	
			Age: 15-29	Piezotome	
			Class 2 division 1		
			HF group:		
			0 M; 11 F		
			Age: 15-29		
Alfailany 2024	Parallel-group RCT		Class 2 division 1		Adverse effects
			12 M; 42F	Ni-Ti closed coil spring 150g	
			Age: 17-28	0.019 x 0.025 SS	
Alfawal 2018	Split-mouth RCT	4 months	Skeletal class 2	Piezotome	Adverse effects
			12 M; 24 F	Ni-Ti closed coil spring 150g	Canine retraction rate (mm/month)
			Age: 15-27	0.019 x 0.025 SS	
Alfawal 2020	Split-mouth RCT	6 months	Class 2 division 1	Piezotome; laser	Adverse effects
			13 M; 19 F	Ni-Ti closed coil spring 150g	
			Age: 16-29	0.019 x 0.025 SS	
Alikhani 2013	Parallel-group RCT	28 days	Class 2 division 1	Piezotome; laser	Adverse effects
			8 M; 12 F	Ni-Ti closed coil spring 100g	
			Age: 19-34	Wire: N/A	
Alkebsi 2018	Split-mouth RCT	3 months	Class 2 division 1	Miniscrew	Adverse effects
			8 M; 24 F	Ni-Ti closed coil spring 150g	
			Age: N/A	0.019 x 0.025 SS	
Alqadasi 2019	Split-mouth RCT	3 months	Class 2 division 1	Miniscrew	Adverse effects
			Gender: N/A	Ni-Ti closed coil spring 150g	
			Age: 15-40	Wire: N/A	
Alqadasi 2021	Split-mouth RCT	3 months	Class 2 division 1	Miniscrew	Adverse effects
			9 M; 12 F	Ni-Ti closed coil spring 150g	
			Age: 15-40	0.018 x 0.025 SS	
Çağlı Karıcı 2021	Split-mouth RCT	3 months	Class 2 division 1	Piezotome; miniscrew	Adverse effects
			10 M; 14 F	Ni-Ti closed coil spring 150g	
			Age: 14-22	0.016 x 0.022 SS	
Eid 2024	Split-mouth RCT	3 months	Class 2 division 1	Piezotome	Adverse effects
			9 M; 6 F	Ni-Ti closed coil spring 150g	
			Age: 15-25	0.016 x 0.022 SS	
El Awady 2019	Split-mouth RCT	6 months	Class 1; 2 division 1	Piezotome	Canine retraction rate (mm/month)
			4 M; 8 F	Ni-Ti closed coil spring 150g	
			Age: 14-18	0.016 x 0.022 SS	
Hawkins 2022	Split-mouth RCT	4 months	Class 1; 2 division 1	Miniscrew	Adverse effects
			8 M; 12 F	Ni-Ti closed coil spring 150g	
			Age: 14-28	0.016 x 0.016 SS	
Jaber 2021	Split-mouth RCT	3 months	Angle class: N/A	Piezotome	Adverse effects
			7 M; 11 F	Elastic chain 150g	
			Age: 16-24	0.019 x 0.025 SS	
Jain 2024	Split-mouth RCT	2 months	Class 2 division 1	Laser	Canine retraction rate (mm/month)
			MOP 5 group:	Ni-Ti closed coil spring 150g	Adverse effects
			Gender: N/A	0.019 x 0.025 SS	Canine retraction rate (mm/month)
			Age: 18-30	Miniscrew	
			Class 1; 2 division 1		
			MOP 7 group:		
			7 M; 11 F		
Jahanbakhshi 2016	Split-mouth RCT	4 months	Age: 16-24		Canine retraction rate (mm/month)
			Class 2 division 1		
			0 M; 15 F	Simple open vertical loop 200g	
Joseph 2022	Split-mouth RCT	4 months	Age: N/A	0.016 x 0.016 SS	Adverse effects
			Angle class: N/A	Round bur	
			2 M; 9 F	Ni-Ti closed coil spring 150g	
Kundi 2020	Parallel-group RCT	6 months	Age: 18-30	0.019 x 0.025 SS	Adverse effects
			Angle class: N/A	Miniscrew	
			14 M; 16 F	Ni-Ti coil spring 100g	
Li 2022	Split-mouth RCT	3 months	Age: 20-36	Wire: N/A	Adverse effects
			Class 2 division 1	Miniscrew	
			9 M; 11 F	Ni-Ti closed coil spring 150g	
Mahmoudzadeh 2020	Split-mouth RCT	1 month	Age: 12-25	0.019 x 0.025 TMA	Canine retraction rate (mm/month)
			Angle class: N/A	Miniscrew	
			3 M; 9 F	Ni-Ti closed coil spring 150g	
Mehta 2020	Split-mouth RCT	>4 months	Age: 15-30	0.016 x 0.022 SS	Adverse effects
			Angle class: N/A	Handpiece	
			6 M; 4 F	Ni-Ti closed coil spring 140-160g	
Moradinejad 2022	Split-mouth RCT	9 weeks	Age: 15-27	0.017 x 0.025 SS	Adverse effects
			Angle class: N/A	Miniscrew	
			3 M; 7 F	Elastic chain	
Raghav 2022	Split-mouth RCT	4 months	Age: 16-21	0.017 x 0.025 SS	Adverse effects
			Class 1, 2	Piezotome	
			12 M; 18 F	Ni-Ti closed coil spring 150g	
Raj 2020	Split-mouth RCT	6 months	Age: 17-30	0.019 x 0.025 SS	Canine retraction rate (mm/month)
			Class 1	Lance Pilot Drill	
			Class 2 division 1		
Ravi 2021	Split-mouth RCT		Gender: N/A	Ni-Ti closed coil spring 150g	Adverse effects
			Age: 20-25	0.016 x 0.022 SS	Canine retraction rate (mm/month)
			Class 2	Piezotome	
Ruiz 2023	Split-mouth RCT	42 days	Gender: N/A	Ni-Ti coil spring 150g	Adverse effects
			Age: 18-26	0.017 x 0.025 SS	
			Class 2	Piezotome	
Sharma 2020	Split-mouth RCT	5 months	Gender: N/A	Elastic chain 250g	Adverse effects
			Age: 15-30	Piezotome	
			Class 2		
Thomas 2021	Split-mouth RCT	3 months	4 M; 12 F	Ni-Ti closed coil spring 150g	Adverse effects
			Age: 14-25	0.016 x 0.022 SS	
			Class 1, 2 division 1	Corticotomy tool: N/A	
			9 M; 24 F	Ni-Ti coil spring 150g	Adverse effects
			Age: 19-25	0.016 x 0.022 SS	Canine retraction rate (mm/month)
			Class 1, 2 division 1	Lance Pilot Drill	