

TABLE 1

Trials of viscosupplementation with hyaluronic acid in knee osteoarthritis

Author (year)	Grecomoro ¹¹ (1987)	Puhl ¹² (1993)	Henderson		Scale ¹⁴ (1994)	Lohmander ¹⁵ (1996)	Altman ¹⁶ (1998)	Wobig ¹⁷ (1998)	Huskisson ¹⁸ (1999)	Petrella	
			1 ¹³ (1994)	2 ¹³ (1994)						1 ¹⁹ (2002)	2 ¹⁹ (2002)
No. subj*	40 knees	209	37	47	80	240	333	117 knees	100	120	120
Treatment	20 [20]	102 [95]	20 [18]	25 [22]	40 [20]	120 [96]	105	57	50	25	29
Control	20 [18]	107 [100]	20 [19]	26 [25]	40 [11]	120 [93]	115	60	50	28	28
SUBJECTS											
Inclusion criteria	Knee OA	Knee OA Clinical	Knee OA Bilateral	Knee OA Bilateral	Knee OA	Knee OA Unilateral Clinical	Knee OA ACR crit.	Knee OA Clinical	Knee OA ARA crit. Pain prev. 3 mos	Knee OA ACR crit.	Knee OA ACR crit.
RSI	K&L II	N.S.	K&L I-II	K&L III-IV	Larsen II-IV	Ahlbäck I-II	K&L II-III	Larsen I-IV	K&L II-III	K&L I-III	K&L I-III
Age, mean	65 years	61 years	62 years	70 years	60 years	58 years	62 years	62 years	66 years	66 years	66 years
TREATMENT											
Name	HA	Sodium hyaluronate	Hyaluronan	Hyaluronan	Hylan G-F20	Hyaluronan	HA	Hylan G-F20	HA	Sodium hyaluronate	Sodium hyaluronate
MW (kDa)	500–750	600–1200	750	750		1000	500–750		500–750		
Dose	20 mg	25 mg	20 mg	20 mg	2–3 inj.	25 mg			20 mg/2 mL	10 mg/mL 2 mL	10 mg/mL
Frequency	2x wk	Weekly	Weekly	Weekly		Weekly	2x wk		Weekly	Weekly	Weekly
Weeks	5	5	5	5		5	5		5	1	1
Other treatment		Aceta.	Aceta.	Aceta.			Aceta.	Rescue TX	Analg. or anti-inflam.	Aceta. Resistance exercise	Aceta. NSAIDs + resistance exercise
Placebo	Saline	Saline + 0.25 mg HA	Saline	Saline	Saline	Saline	Saline	Saline	Saline +	Saline + lactose tablet	+ Saline + lactose tablet
EVALUATION WEEKS	5, 8	5, 9	1, 5, 22	1, 5, 22	1, 2, 3, 8, 12, 26	1, 5, 9, 20	1, 5, 9, 12, 16, 21, 26	1, 2, 3, 8, 12, 26	0, 5, 8, 16, 26	1, 10	1, 10
QUALITY SCORE[†]	0.439	0.80	0.777	0.777	0.570	0.798	0.788	0.731	0.708	0.798	0.798

*Number of subjects included in the study [number of subjects with completed follow-up].

[†]Chalmers et al method.¹⁴

Aceta., acetaminophen; ACR, American College of Rheumatology; ARA, American Rheumatology Association; HA, hyaluronic acid; K&L, Kellgren & Lawrence; MW, molecular weight; NS, not specified; NSAID, nonsteroidal anti-inflammatory drug; OA, osteoarthritis; RSI, radiological severity index