Supplementary Table 1: Summary of adherence to the BCT advice and education about exercise.

| | ВСТ | BCT-US- Triamcinolone- Lidocaine | BCT-US- Lidocaine |
|---|-------------------|--|----------------------|
| Did read information leaflets given during clinic visit | 54/67 (81%) | 63/66 (95%) | 62/66 (94%) |
| Doing exercises as often as advised to 2 months | | | |
| Strongly agree / Agree | 32 (62%) | 39 (64%) | 32 (53%) |
| Not sure | 7 (13%) | 7 (12%) | 10 (17%) |
| Strongly disagree / Disagree | 13 (25%) | 15 (25%) | 18 (30%) |
| 4 months | , , | , | , |
| Strongly agree / Agree | 29 (57%) | 29 (49%) | 28 (48%) |
| Not sure | 9 (18%) | 13 (22%) | 11 (19%) |
| Strongly disagree / Disagree | 13 (25%) | 17 (29%) | 19 (33%) |
| 6 months | | | |
| Strongly agree / Agree | 28 (54%) | 28 (49%) | 30 (50%) |
| Not sure | 7 (13%) | 11 (19%) | 8 (13%) |
| Strongly disagree / Disagree | 17 (33%) | 18 (32%) | 22 (37%) |
| Number of times a week doing exercises 2 months | | | |
| Never | 4 (8%) | 6 (10%) | 3 (5%) |
| 1 – 2 times | 15 (29%) | 20 (32%) | 23 (37%) |
| 3 – 4 times | 18 (35%) | 24 (39%) | 21 (34%) |
| 5 – 6 times | 5 (10%) | 3 (5%) | 3 (5%) |
| Every day | 10 (19%) | 9 (14%) | 12 (19%) |
| 4 months | | | |
| Never | 12 (24%) | 6 (10%) | 5 (8%) |
| 1 – 2 times | 13 (25%) | 23 (40%) | 23 (39%) |
| 3 – 4 times | 17 (33%) | 17 (29%) | 19 (32%) |
| 5 – 6 times | 4 (8%) 5 (10%) | 5 (9%) 7 (12%) | 4 (7%) 8 (14%) |
| Every day 6 months | 5 (10%) | 7 (1270) | 0 (1470) |
| Never | 6 (11%) | 4 (7%) | 6 (10%) |
| 1 – 2 times | 17 (32%) | 32 (56%) | 25 (42%) |
| 3 – 4 times | 16 (30%) | 10 (18%) | 19 (32%) |
| 5 – 6 times | 9 (17%) | 4 (7%) | 2 (3%) |
| Every day | 5 (9%) | 7 (12%) | 7 (12%) |
| Duration (minutes) exercising | , | , | , |
| 2 months | | | |
| < 5 minutes | 2 (4%) | 4 (7%) | 5 (9%) |
| 5 – 9 minutes | 10 (20%) | 16 (29%) | 14 (24%) |
| 10 – 14 minutes | 17 (34%) | 17 (30%) | 22 (38%) |
| 15 – 29 minutes | 16 (32%) | 17 (30%) | 14 (24%) |
| ≥ 30 minutes | 5 (10%) | 2 (4%) | 3 (5%) |
| 4 months | 0 (=0() | 0 (440) | 0 (=0() |
| < 5 minutes | 3 (7%) | 6 (11%) | 3 (5%) |
| 5 – 9 minutes | 13 (31%) | 16 (30%) | 29 (52%) |
| 10 – 14 minutes | 14 (33%) | 16 (30%) | 11 (20%) |
| 15 – 29 minutes | 8 (19%) | 12 (22%) | 10 (18%) |
| ≥ 30 minutes 6 months | 4 (10%) | 4 (7%) | 3 (5%) |
| < 5 minutes | 0 (0%) | 3 (6%) | 5 (9%) |
| 5 – 9 minutes | 7 (17%) | 19 (35%) | 14 (26%) |
| 10 – 14 minutes | 17 (40%) | 14 (26%) | 21 (39%) |
| 15 – 29 minutes | 15 (36%) | 14 (26%) | 9 (17%) |
| | - (/ | (- / - / | (/ |

≥ 30 minutes 3 (7%) 4 (7%) 5 (9%)

Supplementary Table 2: Summary of pain NRS (primary outcome measure) by treatment arm

| | ВСТ | BCT-US- Triamcinolone- Lidocaine | BCT-US- Lidocaine | BCT-US- Triamcinolone- Lidocaine v BCT | BCT-US- Triamcinolone- Lidocaine v BCT- US-Lidocaine |
|----------------------|---------------|--|----------------------|--|---|
| | mean (SD), n | mean (SD), n | mean (SD), n | mean difference (95% CI)* {SMD (95% CI)} [P value] | mean difference (95% CI)* {SMD (95% CI)} [P value] |
| 2 weeks | 6.0 (2.3), 62 | 3.0 (2.5), 63 | 4.0 (2.4), 63 | -3.17 (-4.06, -2.28) {-1.21 (-1.55, - 0.81)} [P<0.001] | -1.02 (-1.90, -0.14) {-0.39 (-0.73, - 0.05)} [P=0.023] |
| 2 months | 5.8 (2.5), 58 | 4.2 (2.8), 64 | 4.7 (2.6), 65 | -1.81 (-2.71, -0.92) {-0.69 (-1.03, - 0.35)} | -0.67 (-1.54, 0.21) {-0.25 (-0.59, 0.08)} [P=0.136] |
| | | | | [P<0.001] | |
| 4 months | 5.4 (2.9), 57 | 4.5 (2.7), 59 | 5.0 (2.6), 63 | -0.86 (-1.78, 0.05) {-0.33 (-0.68, 0.02)} | -0.48 (-1.37, 0.41) {-0.18 (-0.52, 0.16)} |
| | | | | [P=0.063] | [P=0.291] |
| 6 months | 5.0 (2.8), 56 | 5.1 (2.7), 61 | 5.0 (2.5), 61 | 0.12 (-0.80, 1.04) {0.05 (-0.31, 0.40)} | 0.10 (-0.79, 1.00) {0.04 (-0.30, 0.38)} |
| | | | | [P=0.797] | [P=0.823] |
| Overall (average) | 5.6 (2.7), 63 | 4.2 (2.8), 66 | 4.7 (2.6), 65 | -1.43 (-2.15, - 0.72) ^{#1} {-0.55 | -0.52 (-1.21, 0.18) ^{#2} {-0.20 |
| | | | | (-0.82, -0.27)} | (-0.46, 0.07)} |
| | | | | [P<0.001] | [P=0.148] |

Supplementary Table 3: Relative risk, risk difference and number need to treat for dichotomised pain intensity NRS (pain score <5, ≥5)

| | BCT-US-Triamcinolone-Lidocaine v BCT | BCT-US-Triamcinolone-Lidocaine v BCT-US-Lidocaine |
|----------------|--|---|
| 2 weeks | | |
| - RR (95% CI) | 2.73 (1.75 to 4.26) [P<0.001] ³ | 1.37 (1.03 to 1.82) [P=0.03] ¹ |
| - RD (95% CI) | 0.45 (0.19 to 0.84) | 0.19 (0.02 to 0.42) |
| - NNT (95% CI) | 2.2 (1.2 to 5.3) | 5.3 (2.4 to 50) |
| 2 months | | |
| - RR (95% CI) | 1.75 (1.16 to 2.63) [P=0.007] ² | 1.20 (0.87 to 1.65) [P=0.28] |
| - RD (95% CI) | 0.26 (0.06 to 0.56) | 0.10 (-0.06 to 0.32) |
| - NNT (95% CI) | 3.8 (1.8 to 17) | 10 (-17 to 3.1) |
| 4 months | | |
| - RR (95% CI) | 1.63 (1.05 to 2.52) [P=0.03] ¹ | 1.24 (0.85 to 1.80) [P=0.26] |
| - RD (95% CI) | 0.21 (0.02 to 0.51) | 0.10 (-0.06 to 0.34) |
| - NNT (95% CI) | 4.8 (2.0 to 50) | 10 (-17 to 2.9) |
| 6 months | | |
| - RR (95% CI) | 0.99 (0.66 to 1.50) [P=0.97] | 1.10 (0.72 to 1.70) [P=0.66] |
| - RD (95% CI) | 0.00 (-0.15 to 0.21) | 0.04 (-0.11 to 0.26) |
| - NNT (95% CI) | ∞ (-6.7 to 4.8) | 25 (-9.1 to 3.8) |

BCT = Best Current Treatment; BCT-US-Lidocaine = BCT plus Ultrasound guided injection of lidocaine only; BCT-US-Triamcinolone-Lidocaine = BCT plus Ultrasound guided injection of triamcinolone and lidocaine; RR = Relative risk (Riskbct-us-triamcinolone-Lidocaine/Riskbct); RD = Risk difference (Riskbct-us-triamcinolone-Lidocaine - Riskbct); NNT = Number Needed to Treat (US-T versus BCT)

 $^{^{1}}$ 0.01<P<0.05; 2 0.001<P<0.01; 3 P<0.001 (analyses by generalized mixed model (with log link function) adjusted for age, gender and baseline pain score).

Supplementary Table 4: Adjusted versus unadjusted analysis of primary and secondary outcomes

| | Adjusted analysis BCT-US- | | <i>Unadjusted analysis</i> BCT-US- | | |
|--------------------------------|--|--|--|--|--|
| | BCT-US- Triamcinolone- Lidocaine v BCT | Triamcinolone- Lidocaine v BCT- US-Lidocaine | BCT-US- Triamcinolone- Lidocaine v BCT | Triamcinolone- Lidocaine v BCT- US-Lidocaine | |
| Primary | | | | | |
| outcome - Pain | 0.47 / 4.00 / | 4.00 / 4.00 / | | 0.00 / 4.00 / | |
| 2 weeks | -3.17 (-4.06 to - 2.28) ¹ -1.81 (-2.71 to - | -1.02 (-1.90 to - 0.14) ³ | -3.08 (-3.99 to -2.18) ³ | -0.98 (-1.88 to - 0.07) ¹ | |
| 2 months | $(92)^3$ | -0.67 (-1.54 to 0.21) | -1.72 (-2.62 to -0.80) ³ | -0.62 (-1.52 to 0.27) | |
| 4 months | -0.86 (-1.78 to 0.05) | -0.48 (-1.37 to 0.41) | -0.77 (-1.70 to 0.16) | -0.44 (-1.35 to 0.47) | |
| 6 months | 0.12 (-0.80 to 1.04) | 0.10 (-0.79 to 1.00) | 0.22 (-0.72 to 1.15) | 0.14 (-0.78 to 1.06) | |
| Overall | -1.43 (-2.15 to - | , | , | , | |
| (average) | 0.72)1 | -0.52 (-1.21 to 0.18) | -1.34 (-2.07 to -0.61) ³ | -0.47 (-1.20 to 0.25) | |
| Secondary outcomes WOMAC | | | | | |
| 2 months | -14.8 (-20.9 to - 8.64) ³ | -6.68 (-12.6 to - 0.76) ¹ | -15.73 (-23.20 to - 8.26) ³ | -7.26 (-14.55 to 0.04) | |
| | -6.38 (-12.5 to - | -6.42 (-12.4 to - | | -6.71 (-14.09 to | |
| 4 months | $0.21)^{1}$ | $0.45)^{1}$ | -7.22 (-14.76 to 0.32) | 0.66) | |
| 6 months | -1.42 (-7.68 to 4.84) | -0.78 (-6.82 to 5.27) | -2.40 (-9.95 to 5.15) | -1.48 (-8.87 to 5.90) | |
| Overall | -7.52 (-13.00 to - 2.04) ² | -4.62 (-9.91 to 0.67) | -8.45 (-15.45 to - 1.45) ¹ | -5.15 (-12.01 to 1.71) | |
| - WOMAC-P | -1.78 (-3.01 to - 0.54) ² | -1.07 (-2.26 to 0.12) | -1.78 (-3.15 to -0.41) ¹ | -1.02 (-2.36 to 0.32) | |
| - WOMAC-S | -0.53 (-1.08 to 0.01) | -0.23 (-0.76 to 0.30) | -0.45 (-1.03 to 0.14) | -0.24 (-0.81 to 0.33) | |
| W 0 1 1 1 1 0 0 | -5.47 (-9.41 to - | , | -6.35 (-11.52 to - | 0.21 (0.01 to 0.00) | |
| - WOMAC-F | 1.53) ² | -3.60 (-7.40 to 0.21) | 1.18)¹ | -3.97 (-9.03 to 1.08) | |
| PSEQ | | | | | |
| 2 months | 9.27 (5.10 to 13.4) ³ | 6.18 (2.15 to 10.2) ² | 9.14 (3.90 to 14.38) ² | 4.60 (-0.51 to 9.71) | |
| 4 months | 6.71 (2.51 to 10.9) ² | 5.27 (1.21 to 9.34) ¹ | 6.66 (1.37 to 11.95) ¹ | 3.81 (-1.35 to 8.97) | |
| 6 months | 1.64 (-2.62 to 5.90) | 2.88 (-1.24 to 7.00) | 2.02 (-3.27 to 7.32) | 1.85 (-3.04 to 6.74) | |
| Overall | 5.87 (2.30 to 9.45) ² | 4.78 (1.32 to 8.23) ² | 5.94 (1.13 to 10.75) ¹ | 3.46 (-1.25 to 8.16) | |
| Overan | | - (| 0.54 (1.10 to 10.75) | 0.40 (1.20 to 0.10) | |
| IPQ | | | | | |
| 2 months | -6.04 (-9.23 to - 2.84) ³ | -2.55 (-5.59 to 0.48) | -5.80 (-9.23 to -2.27) ² | -2.48 (-5.78 to 0.83) | |
| 6 months | -0.15 (-3.44 to 3.14) ² | 0.79 (-2.33 to 3.91) | -0.21 (-3.73 to 3.31) | 0.64 (-2.75 to 4.04) | |
| Overall | -3.10 (-5.92 to - 0.27) ¹ | -0.88 (-3.57 to 1.80) | -3.01 (-6.10 to 0.09) | -0.92 (-3.91 to 2.08) | |
| - Consequences | -0.55 (-1.27 to 0.17) | -0.35 (-1.04 to 0.35) | -0.48 (-1.28 to 0.32) | -0.36 (-1.13 to 0.42) | |
| - Timeline | 0.07 (-0.74 to 0.60) | 0.40 (-0.25 to 1.05) | 0.07 (-0.59 to 0.73) | 0.30 (-0.34 to 0.94) | |
| - Personal control | 0.12 (-0.93 to 0.69) | 0.25 (-0.52 to 1.03) | 0.22 (-0.63 to 1.06) | 0.30 (-0.52 to 1.11) | |
| - Treatment control | 2.13 (1.11 to 3.15) ³ | 0.98 (0.01 to 1.95) ¹ | 2.04 (1.05 to 3.04) ³ | 0.95 (-0.02 to 1.91) | |
| - Emotional response | -0.63 (-1.43 to 0.16) | -0.43 (-1.19 to 0.33) | -0.58 (-1.53 to 0.38) | -0.17 (-1.10 to 0.76) | |
| SF-PCS | | | | | |

| 2 months | 5.30 (2.38 to 8.21) ³ | 4.05 (1.20 to 6.89) ¹ | 5.84 (2.33 to 9.35) ² | 4.68 (1.23 to 8.12) ² |
|--|---|---|--|---|
| 4 months | 3.07 (0.13 to 6.01) ¹ | 5.31 (2.41 to 8.21) ³ | 3.61 (-0.07 to 7.14) ¹ | 5.91 (2.41 to 9.41) ² |
| 6 months | 3.04 (0.00 to 6.08) | 2.15 (-0.81 to 5.11) | 3.63 (0.02 to 7.24) ¹ | 2.86 (-0.68 to 6.40) |
| Overall | 3.80 (1.33 to 6.27) ² | 3.84 (1.43 to 6.24) ² | 4.36 (1.21 to 7.51) ² | 4.48 (1.39 to 7.58) ² |
| Overall | , | , | 4.00 (1.21 to 7.01) | 4.40 (1.00 to 7.00) |
| SF-MCS | | | | |
| 2 months | 1.09 (-2.69 to 4.87) | -1.05 (-4.73 to 2.63) | 2.42 (-2.09 to 6.92) | 0.06 (-4.36 to 4.48) |
| 4 months | 2.01 (-1.80 to 5.83) | 0.33 (-3.44 to 4.10) | 3.44 (-1.10 to 7.99) | -0.49 (-5.00 to 4.03) |
| 6 months | -2.63 (-6.61 to 1.35) | -0.50 (-4.37 to 3.37) | -0.68 (-5.34 to 3.99) | -1.04 (-5.62 to 3.55) |
| Overall | 0.16 (-2.83 to 3.15) | 0.29 (-2.60 to 3.19) | 1.72 (-2.13 to 5.59) | -0.49 (-4.29 to 3.31) |
| | | | | |
| EQ-5D-5L | | | | |
| 2 weeks | 0.18 (0.12 to 0.24) ³ | 0.06 (0.00 to 0.12) | 0.17 (0.08 to 0.26) ³ | 0.06 (-0.03 to 0.15) |
| 2 months | 0.15 (0.08 to 0.22) ³ | $0.07 (0.00 \text{ to } 0.14)^{1}$ | 0.14 (0.05 to 0.23) ² | 0.07 (-0.02 to 0.16) |
| 4 months | 0.12 (0.04 to 0.19) ² | 0.10 (0.03 to 0.18) ² | 0.10 (0.01 to 0.19) ¹ | 0.10 (0.01 to 0.19) ¹ |
| 6 months | 0.01 (-0.07 to 0.08) | 0.00 (-0.07 to 0.08) | 0.01 (-0.10 to 0.08) | 0.003 (-0.09 to 0.09) |
| Overall | 0.11 (0.06 to 0.17) ³ | 0.06 (0.01 to 0.11) ¹ | 0.10 (0.02 to 0.18) ¹ | 0.06 (-0.02 to 0.14) |
| | | | , | , |
| SPS | | | | |
| 2 months | 4.06 (1.75 to 6.38) ² | 3.40 (1.22 to 5.59) ² | 3.61 (0.80 to 6.43) ¹ | 3.21 (0.54 to 5.87) ¹ |
| 6 months | 2.16 (-0.20 to 4.53) | 2.45 (0.22 to 4.69) ¹ | 1.76 (-1.10 to 4.62) | 2.31 (-0.39 to 5.01) |
| Overall | 3.11 (1.05 to 5.18) ¹ | 2.93 (0.98 to 4.88) ¹ | 2.69 (0.07 to 5.30) ¹ | 2.76 (0.28 to 5.24) ¹ |
| | | | | |
| Work | | | | |
| performance | 4.70 / 0.00 +- | 4 40 / 0 04 +- | | 4.00 / 0.40 +- |
| 2 months | -1.72 (-2.93 to - | -1.49 (-2.64 to - | | -1.83 (-3.19 to - |
| / 111011111S | 0.51)1 | 0.34)¹ | -1 12 (-2 58 to 0 35) | $0.46)^{2}$ |
| | 0.51) ¹ -0.84 (-2.08 to 0.39) | 0.34) ¹ -0.47 (-1.64 to 0.71) | -1.12 (-2.58 to 0.35) -0.21 (-1.69 to 1.27) | 0.46) ² -0.70 (-2.09 to 0.69) |
| 6 months | -0.84 (-2.08 to 0.39) -1.28 (-2.39 to - | -0.47 (-1.64 to 0.71) | -0.21 (-1.69 to 1.27) | -0.70 (-2.09 to 0.69) |
| | -0.84 (-2.08 to 0.39) | , | , | • |
| 6 months Overall | -0.84 (-2.08 to 0.39) -1.28 (-2.39 to - | -0.47 (-1.64 to 0.71) | -0.21 (-1.69 to 1.27) | -0.70 (-2.09 to 0.69) |
| 6 months Overall BMI | -0.84 (-2.08 to 0.39) -1.28 (-2.39 to - 0.18) ¹ | -0.47 (-1.64 to 0.71) -0.98 (-2.03 to 0.07) | -0.21 (-1.69 to 1.27) -0.66 (-2.04 to 0.71) | -0.70 (-2.09 to 0.69) -1.27 (-2.55 to 0.02) |
| 6 months Overall | -0.84 (-2.08 to 0.39) -1.28 (-2.39 to - | -0.47 (-1.64 to 0.71) | -0.21 (-1.69 to 1.27) | -0.70 (-2.09 to 0.69) |
| 6 months Overall BMI 6 months | -0.84 (-2.08 to 0.39) -1.28 (-2.39 to - 0.18) ¹ | -0.47 (-1.64 to 0.71) -0.98 (-2.03 to 0.07) | -0.21 (-1.69 to 1.27) -0.66 (-2.04 to 0.71) | -0.70 (-2.09 to 0.69) -1.27 (-2.55 to 0.02) |
| 6 months Overall BMI | -0.84 (-2.08 to 0.39) -1.28 (-2.39 to - 0.18) ¹ | -0.47 (-1.64 to 0.71) -0.98 (-2.03 to 0.07) | -0.21 (-1.69 to 1.27) -0.66 (-2.04 to 0.71) | -0.70 (-2.09 to 0.69) -1.27 (-2.55 to 0.02) |
| 6 months Overall BMI 6 months Perceived | -0.84 (-2.08 to 0.39) -1.28 (-2.39 to - 0.18) ¹ | -0.47 (-1.64 to 0.71) -0.98 (-2.03 to 0.07) | -0.21 (-1.69 to 1.27) -0.66 (-2.04 to 0.71) | -0.70 (-2.09 to 0.69) -1.27 (-2.55 to 0.02) |
| 6 months Overall BMI 6 months Perceived change† 2 weeks | -0.84 (-2.08 to 0.39) -1.28 (-2.39 to - 0.18) ¹ -0.22 (-0.91 to 0.46) | -0.47 (-1.64 to 0.71) -0.98 (-2.03 to 0.07) 0.10 (-0.55 to 0.74) | -0.21 (-1.69 to 1.27) -0.66 (-2.04 to 0.71) 0.62 (-1.86 to 3.09) 6.92 (3.40 to 14.10) ^{3\$} | -0.70 (-2.09 to 0.69) -1.27 (-2.55 to 0.02) -0.79 (-3.20 to 1.63) 2.25 (1.40 to 3.62) ² |
| 6 months Overall BMI 6 months Perceived change† | -0.84 (-2.08 to 0.39) -1.28 (-2.39 to - 0.18) ¹ -0.22 (-0.91 to 0.46) 6.93 (3.39 to 14.2) ^{3\$} | -0.47 (-1.64 to 0.71) -0.98 (-2.03 to 0.07) 0.10 (-0.55 to 0.74) 2.28 (1.42 to 3.66) ³ | -0.21 (-1.69 to 1.27) -0.66 (-2.04 to 0.71) 0.62 (-1.86 to 3.09) | -0.70 (-2.09 to 0.69) -1.27 (-2.55 to 0.02) -0.79 (-3.20 to 1.63) |
| 6 months Overall BMI 6 months Perceived change† 2 weeks 2 months | -0.84 (-2.08 to 0.39) -1.28 (-2.39 to - 0.18) ¹ -0.22 (-0.91 to 0.46) 6.93 (3.39 to 14.2) ^{3\$} 6.66 (2.48 to 17.9) ³ | -0.47 (-1.64 to 0.71) -0.98 (-2.03 to 0.07) 0.10 (-0.55 to 0.74) 2.28 (1.42 to 3.66) ³ 2.63 (1.43 to 4.82) ² | -0.21 (-1.69 to 1.27) -0.66 (-2.04 to 0.71) 0.62 (-1.86 to 3.09) 6.92 (3.40 to 14.10) ^{3\$} 6.59 (2.46 to 17.64) ³ | -0.70 (-2.09 to 0.69) -1.27 (-2.55 to 0.02) -0.79 (-3.20 to 1.63) 2.25 (1.40 to 3.62) ² 2.69 (1.147 to 4.90) ² |
| 6 months Overall BMI 6 months Perceived change† 2 weeks 2 months 4 months | -0.84 (-2.08 to 0.39) -1.28 (-2.39 to - 0.18) ¹ -0.22 (-0.91 to 0.46) 6.93 (3.39 to 14.2) ^{3\$} 6.66 (2.48 to 17.9) ³ 1.54 (0.32 to 1.32) | -0.47 (-1.64 to 0.71) -0.98 (-2.03 to 0.07) 0.10 (-0.55 to 0.74) 2.28 (1.42 to 3.66) ³ 2.63 (1.43 to 4.82) ² 1.85 (0.88 to 3.88) | -0.21 (-1.69 to 1.27) -0.66 (-2.04 to 0.71) 0.62 (-1.86 to 3.09) 6.92 (3.40 to 14.10) ^{3\$} 6.59 (2.46 to 17.64) ³ 1.52 (0.75 to 3.07) | -0.70 (-2.09 to 0.69) -1.27 (-2.55 to 0.02) -0.79 (-3.20 to 1.63) 2.25 (1.40 to 3.62) ² 2.69 (1.147 to 4.90) ² 1.87 (0.89 to 3.90) |
| 6 months Overall BMI 6 months Perceived change† 2 weeks 2 months 4 months | -0.84 (-2.08 to 0.39) -1.28 (-2.39 to - 0.18) ¹ -0.22 (-0.91 to 0.46) 6.93 (3.39 to 14.2) ^{3\$} 6.66 (2.48 to 17.9) ³ 1.54 (0.32 to 1.32) 0.91 (0.55 to 2.17) | -0.47 (-1.64 to 0.71) -0.98 (-2.03 to 0.07) 0.10 (-0.55 to 0.74) 2.28 (1.42 to 3.66) ³ 2.63 (1.43 to 4.82) ² 1.85 (0.88 to 3.88) 1.27 (0.62 to 2.58) | -0.21 (-1.69 to 1.27) -0.66 (-2.04 to 0.71) 0.62 (-1.86 to 3.09) 6.92 (3.40 to 14.10) ^{3\$} 6.59 (2.46 to 17.64) ³ 1.52 (0.75 to 3.07) | -0.70 (-2.09 to 0.69) -1.27 (-2.55 to 0.02) -0.79 (-3.20 to 1.63) 2.25 (1.40 to 3.62) ² 2.69 (1.147 to 4.90) ² 1.87 (0.89 to 3.90) |
| 6 months Overall BMI 6 months Perceived change† 2 weeks 2 months 4 months 6 months | -0.84 (-2.08 to 0.39) -1.28 (-2.39 to - 0.18) ¹ -0.22 (-0.91 to 0.46) 6.93 (3.39 to 14.2) ^{3\$} 6.66 (2.48 to 17.9) ³ 1.54 (0.32 to 1.32) | -0.47 (-1.64 to 0.71) -0.98 (-2.03 to 0.07) 0.10 (-0.55 to 0.74) 2.28 (1.42 to 3.66) ³ 2.63 (1.43 to 4.82) ² 1.85 (0.88 to 3.88) | -0.21 (-1.69 to 1.27) -0.66 (-2.04 to 0.71) 0.62 (-1.86 to 3.09) 6.92 (3.40 to 14.10) ^{3\$} 6.59 (2.46 to 17.64) ³ 1.52 (0.75 to 3.07) | -0.70 (-2.09 to 0.69) -1.27 (-2.55 to 0.02) -0.79 (-3.20 to 1.63) 2.25 (1.40 to 3.62) ² 2.69 (1.147 to 4.90) ² 1.87 (0.89 to 3.90) |
| 6 months Overall BMI 6 months Perceived change† 2 weeks 2 months 4 months 6 months Sleep problem† | -0.84 (-2.08 to 0.39) -1.28 (-2.39 to - 0.18) ¹ -0.22 (-0.91 to 0.46) 6.93 (3.39 to 14.2) ^{3\$} 6.66 (2.48 to 17.9) ³ 1.54 (0.32 to 1.32) 0.91 (0.55 to 2.17) | -0.47 (-1.64 to 0.71) -0.98 (-2.03 to 0.07) 0.10 (-0.55 to 0.74) 2.28 (1.42 to 3.66) ³ 2.63 (1.43 to 4.82) ² 1.85 (0.88 to 3.88) 1.27 (0.62 to 2.58) | -0.21 (-1.69 to 1.27) -0.66 (-2.04 to 0.71) 0.62 (-1.86 to 3.09) 6.92 (3.40 to 14.10) ^{3\$} 6.59 (2.46 to 17.64) ³ 1.52 (0.75 to 3.07) 1.07 (0.54 to 2.12) | -0.70 (-2.09 to 0.69) -1.27 (-2.55 to 0.02) -0.79 (-3.20 to 1.63) 2.25 (1.40 to 3.62) ² 2.69 (1.147 to 4.90) ² 1.87 (0.89 to 3.90) 1.27 (0.63 to 2.58) |
| 6 months Overall BMI 6 months Perceived change† 2 weeks 2 months 4 months 6 months Sleep problem† 2 months | -0.84 (-2.08 to 0.39) -1.28 (-2.39 to - 0.18) ¹ -0.22 (-0.91 to 0.46) 6.93 (3.39 to 14.2) ^{3\$} 6.66 (2.48 to 17.9) ³ 1.54 (0.32 to 1.32) 0.91 (0.55 to 2.17) 1.96 (1.28 to 3.03) ² | -0.47 (-1.64 to 0.71) -0.98 (-2.03 to 0.07) 0.10 (-0.55 to 0.74) 2.28 (1.42 to 3.66) ³ 2.63 (1.43 to 4.82) ² 1.85 (0.88 to 3.88) 1.27 (0.62 to 2.58) | -0.21 (-1.69 to 1.27) -0.66 (-2.04 to 0.71) 0.62 (-1.86 to 3.09) 6.92 (3.40 to 14.10) ^{3\$} 6.59 (2.46 to 17.64) ³ 1.52 (0.75 to 3.07) 1.07 (0.54 to 2.12) | -0.70 (-2.09 to 0.69) -1.27 (-2.55 to 0.02) -0.79 (-3.20 to 1.63) 2.25 (1.40 to 3.62) ² 2.69 (1.147 to 4.90) ² 1.87 (0.89 to 3.90) 1.27 (0.63 to 2.58) 1.58 (1.01 to 2.44) ¹ |
| 6 months Overall BMI 6 months Perceived change† 2 weeks 2 months 4 months 6 months Sleep problem† 2 months 4 months 4 months | -0.84 (-2.08 to 0.39) -1.28 (-2.39 to - 0.18) ¹ -0.22 (-0.91 to 0.46) 6.93 (3.39 to 14.2) ^{3\$} 6.66 (2.48 to 17.9) ³ 1.54 (0.32 to 1.32) 0.91 (0.55 to 2.17) 1.96 (1.28 to 3.03) ² 1.27 (0.79 to 2.04) | -0.47 (-1.64 to 0.71) -0.98 (-2.03 to 0.07) 0.10 (-0.55 to 0.74) 2.28 (1.42 to 3.66) ³ 2.63 (1.43 to 4.82) ² 1.85 (0.88 to 3.88) 1.27 (0.62 to 2.58) 1.72 (1.12 to 2.63) ¹ 1.56 (1.06 to 2.27) ¹ | -0.21 (-1.69 to 1.27) -0.66 (-2.04 to 0.71) 0.62 (-1.86 to 3.09) 6.92 (3.40 to 14.10) ^{3\$} 6.59 (2.46 to 17.64) ³ 1.52 (0.75 to 3.07) 1.07 (0.54 to 2.12) 1.66 (1.07 to 2.58) ¹ 1.04 (0.65 to 1.67) | -0.70 (-2.09 to 0.69) -1.27 (-2.55 to 0.02) -0.79 (-3.20 to 1.63) 2.25 (1.40 to 3.62) ² 2.69 (1.147 to 4.90) ² 1.87 (0.89 to 3.90) 1.27 (0.63 to 2.58) 1.58 (1.01 to 2.44) ¹ 1.49 (1.00 to 2.23) ¹ |
| 6 months Overall BMI 6 months Perceived change† 2 weeks 2 months 4 months 6 months Sleep problem† 2 months 4 months 4 months | -0.84 (-2.08 to 0.39) -1.28 (-2.39 to - 0.18) ¹ -0.22 (-0.91 to 0.46) 6.93 (3.39 to 14.2) ^{3\$} 6.66 (2.48 to 17.9) ³ 1.54 (0.32 to 1.32) 0.91 (0.55 to 2.17) 1.96 (1.28 to 3.03) ² 1.27 (0.79 to 2.04) 1.05 (0.69 to 1.45) results of care | -0.47 (-1.64 to 0.71) -0.98 (-2.03 to 0.07) 0.10 (-0.55 to 0.74) 2.28 (1.42 to 3.66) ³ 2.63 (1.43 to 4.82) ² 1.85 (0.88 to 3.88) 1.27 (0.62 to 2.58) 1.72 (1.12 to 2.63) ¹ 1.56 (1.06 to 2.27) ¹ 1.10 (0.79 to 1.52) | -0.21 (-1.69 to 1.27) -0.66 (-2.04 to 0.71) 0.62 (-1.86 to 3.09) 6.92 (3.40 to 14.10) ^{3\$} 6.59 (2.46 to 17.64) ³ 1.52 (0.75 to 3.07) 1.07 (0.54 to 2.12) 1.66 (1.07 to 2.58) ¹ 1.04 (0.65 to 1.67) | -0.70 (-2.09 to 0.69) -1.27 (-2.55 to 0.02) -0.79 (-3.20 to 1.63) 2.25 (1.40 to 3.62) ² 2.69 (1.147 to 4.90) ² 1.87 (0.89 to 3.90) 1.27 (0.63 to 2.58) 1.58 (1.01 to 2.44) ¹ 1.49 (1.00 to 2.23) ¹ |
| 6 months Overall BMI 6 months Perceived change† 2 weeks 2 months 4 months 6 months Sleep problem† 2 months 4 months 6 months 6 months | -0.84 (-2.08 to 0.39) -1.28 (-2.39 to - 0.18) ¹ -0.22 (-0.91 to 0.46) 6.93 (3.39 to 14.2) ^{3\$} 6.66 (2.48 to 17.9) ³ 1.54 (0.32 to 1.32) 0.91 (0.55 to 2.17) 1.96 (1.28 to 3.03) ² 1.27 (0.79 to 2.04) 1.05 (0.69 to 1.45) results of care 2.51 (1.40 to 3.61) ³ | -0.47 (-1.64 to 0.71) -0.98 (-2.03 to 0.07) 0.10 (-0.55 to 0.74) 2.28 (1.42 to 3.66) ³ 2.63 (1.43 to 4.82) ² 1.85 (0.88 to 3.88) 1.27 (0.62 to 2.58) 1.72 (1.12 to 2.63) ¹ 1.56 (1.06 to 2.27) ¹ 1.10 (0.79 to 1.52) | -0.21 (-1.69 to 1.27) -0.66 (-2.04 to 0.71) 0.62 (-1.86 to 3.09) 6.92 (3.40 to 14.10) ^{3\$} 6.59 (2.46 to 17.64) ³ 1.52 (0.75 to 3.07) 1.07 (0.54 to 2.12) 1.66 (1.07 to 2.58) ¹ 1.04 (0.65 to 1.67) | -0.70 (-2.09 to 0.69) -1.27 (-2.55 to 0.02) -0.79 (-3.20 to 1.63) 2.25 (1.40 to 3.62) ² 2.69 (1.147 to 4.90) ² 1.87 (0.89 to 3.90) 1.27 (0.63 to 2.58) 1.58 (1.01 to 2.44) ¹ 1.49 (1.00 to 2.23) ¹ |
| 6 months Overall BMI 6 months Perceived change† 2 weeks 2 months 4 months 6 months Sleep problem† 2 months 4 months 6 months Rating of overall | -0.84 (-2.08 to 0.39) -1.28 (-2.39 to - 0.18) ¹ -0.22 (-0.91 to 0.46) 6.93 (3.39 to 14.2) ^{3\$} 6.66 (2.48 to 17.9) ³ 1.54 (0.32 to 1.32) 0.91 (0.55 to 2.17) 1.96 (1.28 to 3.03) ² 1.27 (0.79 to 2.04) 1.05 (0.69 to 1.45) results of care | -0.47 (-1.64 to 0.71) -0.98 (-2.03 to 0.07) 0.10 (-0.55 to 0.74) 2.28 (1.42 to 3.66) ³ 2.63 (1.43 to 4.82) ² 1.85 (0.88 to 3.88) 1.27 (0.62 to 2.58) 1.72 (1.12 to 2.63) ¹ 1.56 (1.06 to 2.27) ¹ 1.10 (0.79 to 1.52) | -0.21 (-1.69 to 1.27) -0.66 (-2.04 to 0.71) 0.62 (-1.86 to 3.09) 6.92 (3.40 to 14.10) ^{3\$} 6.59 (2.46 to 17.64) ³ 1.52 (0.75 to 3.07) 1.07 (0.54 to 2.12) 1.66 (1.07 to 2.58) ¹ 1.04 (0.65 to 1.67) 0.80 (0.54 to 1.20) | -0.70 (-2.09 to 0.69) -1.27 (-2.55 to 0.02) -0.79 (-3.20 to 1.63) 2.25 (1.40 to 3.62) ² 2.69 (1.147 to 4.90) ² 1.87 (0.89 to 3.90) 1.27 (0.63 to 2.58) 1.58 (1.01 to 2.44) ¹ 1.49 (1.00 to 2.23) ¹ 1.01 (0.72 to 1.43) |
| 6 months Overall BMI 6 months Perceived change† 2 weeks 2 months 4 months 6 months Sleep problem† 2 months 4 months 6 months Rating of overall 2 months | -0.84 (-2.08 to 0.39) -1.28 (-2.39 to - 0.18) ¹ -0.22 (-0.91 to 0.46) 6.93 (3.39 to 14.2) ^{3\$} 6.66 (2.48 to 17.9) ³ 1.54 (0.32 to 1.32) 0.91 (0.55 to 2.17) 1.96 (1.28 to 3.03) ² 1.27 (0.79 to 2.04) 1.05 (0.69 to 1.45) results of care 2.51 (1.40 to 3.61) ³ | -0.47 (-1.64 to 0.71) -0.98 (-2.03 to 0.07) 0.10 (-0.55 to 0.74) 2.28 (1.42 to 3.66) ³ 2.63 (1.43 to 4.82) ² 1.85 (0.88 to 3.88) 1.27 (0.62 to 2.58) 1.72 (1.12 to 2.63) ¹ 1.56 (1.06 to 2.27) ¹ 1.10 (0.79 to 1.52) | -0.21 (-1.69 to 1.27) -0.66 (-2.04 to 0.71) 0.62 (-1.86 to 3.09) 6.92 (3.40 to 14.10) ^{3\$} 6.59 (2.46 to 17.64) ³ 1.52 (0.75 to 3.07) 1.07 (0.54 to 2.12) 1.66 (1.07 to 2.58) ¹ 1.04 (0.65 to 1.67) 0.80 (0.54 to 1.20) | -0.70 (-2.09 to 0.69) -1.27 (-2.55 to 0.02) -0.79 (-3.20 to 1.63) 2.25 (1.40 to 3.62) ² 2.69 (1.147 to 4.90) ² 1.87 (0.89 to 3.90) 1.27 (0.63 to 2.58) 1.58 (1.01 to 2.44) ¹ 1.49 (1.00 to 2.23) ¹ 1.01 (0.72 to 1.43) 1.40 (0.35 to 2.44) ² |

| Satisfaction with received [†] | information | | | |
|---|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| 2 months | 1.35 (1.10 to 1.64) ² | 1.15 (0.99 to 1.34) | 1.33 (1.09 to 1.62) ² | 1.15 (0.98 to 1.34) |
| 6 months | 1.19 (0.91 to 1.56) | 1.15 (0.94 to 1.40) | 1.18 (0.90 to 1.54) | 0.87 (0.71 to 1.06) |
| Understanding of | hip problem⁺ | | | |
| 2 months | 1.01 (0.87 to 1.17) | 1.02 (0.89 to 1.17) | 1.02 (0.89 to 1.17) | 1.02 (0.89 to 1.17) |
| 6 months | 0.98 (0.81 to 1.18) | 0.88 (0.76 to 1.03) | 0.88 (0.75 to 1.03) | 0.88 (0.75 to 1.03) |
| Patient still has q | | | | |
| 2 months | 1.19 (0.76 to 1.82) | 1.16 (0.76 to 1.75) | 1.16 (0.75 to 1.77) | 1.17 (0.77 to 1.77) |
| 6 months | 0.96 (0.65 to 1.43) | 1.14 (0.80 to 1.61) | 0.95 (0.65 to 1.38) | 1.11 (0.79 to 1.56) |
| Patient has been of the hip pain [†] | kept from their usual | activities because | | |
| 2 months | 1.79 (1.15 to 2.70) ² | 1.41 (0.91 to 2.22) | 1.66 (1.08 to 2.55) ¹ | 1.45 (0.66 to 2.26) |
| 6 months | 1.15 (0.79 to 1.69) | 1.08 (0.76 to 1.54) | 1.04 (0.72 to 1.49) | 1.03 (0.71 to 1.47) |
| Satisfaction with | care received [†] | | | |
| 2 months | 1.97 (1.33 to 2.93) ² | 1.61 (1.17 to 2.21) ² | 1.93 (1.30 to 2.86) ² | 1.59 (1.16 to 2.19) ² |
| 6 months | 1.72 (1.11 to 2.66) ¹ | 0.93 (0.69 to 1.25) | 1.68 (1.09 to 2.60) ¹ | 1.14 (0.88 to 1.47) |
| Patient would have same condition | ve the same care agai | n if they had the | | |
| 2 months | 2.41 (1.53 to 3.80) ³ | 1.45 (1.07 to 1.96) ¹ | 2.40 (1.52 to 3.80) ³ | 1.44 (1.06 to 1.95) ¹ |
| 6 months | 1.89 (1.22 to 2.92) ² | 1.06 (0.80 to 1.40) | 1.87 (1.21 to 2.88) ² | 1.04 (0.79 to 1.38) |
| Expectation for pa | ain relief met ⁺ | | | |
| 2 months | 1.52 (1.10 to 2.10) ¹ | 1.26 (0.95 to 1.67) | 1.43 (1.04 to 1.98) ¹ | 1.24 (0.94 to 1.64) |
| 6 months | 1.35 (0.99 to 1.84) | 1.29 (0.95 to 1.73) | 1.26 (0.92 to 1.73) | 1.27 (0.94 to 1.72) |

BCT = Best Current Treatment; BCT-US-Triamcinolone-Lidocaine = BCT plus Ultrasound guided injection of triamcinolone and lidocaine; BCT-US-Lidocaine = BCT plus Ultrasound guided injection of lidocaine only. For numerical outcomes, effects shown are mean differences (summarised by mean scores (SD)). † For binary/categorical outcomes, the Relative Risk (RR) is shown. All effect sizes are presented with their associated 95% Confidence Interval. Adjusted analysis completed by use of linear or generalised mixed models accounting for repeated measures and adjusted for age, gender, baseline pain and (where applicable) the corresponding baseline value.

Outcomes (numerical scales): Western Ontario and McMaster Universities Osteoarthritis Index (WOMAC-T) 0-96 [0=Minimum problems, 96=maximum problems]; WOMAC-Pain subscale (WOMAC-P) 0-20 [0=No pain, 20=Highest pain], WOMAC-Stiffness subscale (WOMAC-S) 0-8 [0=No stiffness, 8=Most stiffness], WOMAC-Function subscale (WOMAC-F) 0-68 [0=No difficulty, 68=Most difficulty]; Pain Self-Efficacy Questionnaire (PSEQ), 0-60 [0=No confidence; 60=Highest confidence]; modified brief Illness Perceptions Questionnaire (IPQ), 0-50 [0=Full understanding, 50=Least understanding]; IPQ-Consequences subscale [0=No affect at all; 10=Severely affects life]; IPQ-Timeline subscale [0=Last very short time; 10=Last forever]; IPQ-Personal control subscale [0=No control; 10=Extreme control]; IPQ-Treatment control subscale [0=Treatment no help; 10=Treatment extremely helpful]; IPQ-Emotional response subscale [0=Not affected emotionally; 10=Extremely affected emotionally]; Short Form-12 Physical Component Scale (SF12-PCS) 0-100 [0=Worst physical health, 100=Best physical health]; Short Form-12 Mental Component Scale (SF12-MCS) 0-100 [0=Worst mental health, 100=best mental health]; EQ5D (utility) -0.59 – 1.00 [-0.59=Worst health utility, 1.00=Best health utility]; Stanford Presenteeism Scale (SPS) 6-30 [6=Minimum ability, 30=Maximum ability]; Work Performance 0-10 numerical integer scale [0=Not affected, 10=Unable to do job]; BMI=Body Mass Index (kg/m²); Rating of overall results of care: 0-10 numerical integer scale [0=Terrible, 10=Excellent].

¹ 0.01≤P<0.05; ² 0.001≤P<0.01; ³ P<0.001.\$ indicates where RR was derived using completely/much/somewhat better as 'positive response' since the number of people who were completely or much better at 2 weeks in the BCT arm was zero and could not be analysed

Supplementary Table 5: Summary of WOMAC subscales (Pain, Stiffness and Function) subscales by treatment arm.

| | ВСТ | BCT-US- Triamcinolone- Lidocaine | BCT-US- Lidocaine | BCT-US- Triamcinolone- Lidocaine v BCT alone | BCT-US- Triamcinolone- Lidocaine v BCT- US-Lidocaine |
|-----------|--------------------|--|----------------------|---|---|
| | mean (SD), n | mean (SD), n | mean (SD), n | mean difference* (95% CI) [P value] | mean difference* (95% CI) [P value] |
| Pain | | | | , a.a.o, | |
| 2 months | 10.7 (3.8), 57 | 7.0 (4.3), 61 | 8.7 (4.1), 62 | -3.61 (-5.02 to - 2.20) [P<0.001] | -1.74 (-3.10 to - 0.37) [P=0.01] |
| 4 months | 9.0 (4.6), 53 | 7.9 (4.3), 59 | 9.1 (4.1), 59 | -1.25 (-2.67 to 0.18) [P=0.09] | -1.24 (-2.62 to 0.14) [P=0.08] |
| 6 months | 9.0 (4.5), 53 | 8.8 (4.3), 56 | 9.1 (4.1), 60 | -0.47 (-1.91 to 0.97) [P=0.52] | -0.24 (-1.63 to 1.15) [P=0.74] |
| Overall | 9.9 (4.2), 61 | 8.0 (4.0), 64 | 9.1 (3.7), 65 | -1.78 (-3.01 to - 0.54) [P=0.005] | -1.07 (-2.26 to 0.12) [P=0.08] |
| Stiffness | | | | | |
| 2 months | 4.3 (1.9), 57 | 3.2 (1.9), 63 | 3.7 (1.7), 63 | -1.24 (-1.87 to - 0.62) [P<0.001] | -0.53 (-1.14 to 0.08) [P=0.09] |
| 4 months | 3.8 (1.9), 53 | 3.7 (1.9), 60 | 3.8 (1.8), 60 | -0.25 (-0.89 to 0.39) [P=0.45] | -0.12 (-0.73 to 0.50) [P=0.71] |
| 6 months | 3.7 (1.9), 53 | 3.7 (1.7), 56 | 3.8 (1.8), 59 | -0.11 (-0.75 to 0.54) [P=0.75] | -0.05 (-0.68 to 0.57) [P=0.87] |
| Overall | 3.9 (1.9), 61 | 3.5 (1.8), 65 | 3.8 (1.8), 65 | -0.53 (-1.08 to 0.01) [P=0.06] | -0.23 (-0.76 to 0.30) [P=0.39] |
| Function | | | | | |
| 2 months | 35.3 (16.1), 55 | 23.8 (15.0), 62 | 29.1 (14.3), 63 | -10.4 (-14.8 to 5.95) [P<0.001] | -4.94 (-9.19 to - 0.70) [P=0.02] |
| 4 months | 30.7 (17.2), 51 | 26.7 (15.1), 60 | 31.3 (13.5), 59 | -4.81 (-9.23 to - 0.37) [P=0.03] | -4.89 (-9.16 to - 0.61) [P=0.03] |
| 6 months | 30.2 (16.7), 53 | 28.8 (15.2), 57 | 31.0 (14.3), 59 | -1.25 (-5.74 to 3.25) [P=0.59] | -0.96 (-5.30 to 3.38) [P=0.67] |
| Overall | 32.1 (16.7), 60 | 26.4 (15.1), 65 | 30.4 (14.0), 65, | -5.47 (-9.41 to - 1.53) [P=0.007] | -3.60 (-7.40 to 0.21) [P=0.06] |

BCT = Best Current Treatment; BCT-US-Triamcinolone-Lidocaine = BCT plus Ultrasound guided injection of triamcinolone and lidocaine; BCT-US-Lidocaine = BCT plus Ultrasound guided injection of lidocaine only; n (number of subjects analysed).

Western Ontario and McMaster Universities Osteoarthritis Index (WOMAC-T) 0-96 [0=Minimum problems, 96=maximum problems]; WOMAC-Pain subscale (WOMAC-P) 0-20 [0=No pain, 20=Highest pain], WOMAC-Stiffness subscale (WOMAC-S) 0-8 [0=No stiffness, 8=Most stiffness], WOMAC-Function subscale (WOMAC-F) 0-68 [0=No difficulty, 68=Most difficulty].

^{*} Analysis by longitudinal linear mixed model adjusted for age, gender and baseline pain and WOMAC subscale scores.

Supplementary Table 6: Summary of adverse events.

| | ВСТ | BCT-US- Triamcinolone- Lidocaine | BCT-US- Lidocaine |
|--|------|--|----------------------|
| Total number of non-serious adverse events (related or unrelated) | 2 | 34 | 34 |
| No. of participants afflicted | 2 | 25 | 26 |
| Expected related non-serious adverse events | | | |
| >Whitening of the skin* | NA | 4 | 2 |
| >Thinning of the skin* | NA | 2 | 2 |
| >Bruising* | NA | _ 15 | _ 16 |
| >Pain after injection | NA | 1 | 7 |
| >Flushing | NA | 4 | 0 |
| >Other skin problem eg rash | NA | 0 | 2 |
| >Menorrhagia | NA | 1 | 0 |
| >Infection | NA | 1 | 1 |
| >Anxiety after injection | NA | 1 | i |
| Discomfort with exercise | 2 | 0 | 0 |
| Total events | 2 | 29 | 31 |
| No. of participants afflicted** | NA | 21 | 24 |
| No. of participants afflicted | 14/1 | 21 | 27 |
| Non-related non-serious adverse events | | | |
| >Constipation | 0 | 1 | 0 |
| >Headache | Ö | 0 | 1 |
| >Fall | Ö | 0 | 1 |
| >Restless leg(s) | 0 | 1 | 0 |
| >Plantar fascitis | Ö | 1 | 0 |
| >Neuralgia | Ö | 0 | 1 |
| >Cough | Ö | 1 | Ö |
| >Numbness in leg | Ö | 1 | Ö |
| Total events | 0 | 5 | 3 |
| No. of participants afflicted | 0 | 4 | 3 |
| No. of participants afflicted | O | 7 | J |
| Possibly related Serious adverse events | | | |
| Death due to subacute bacterial endocarditis | 0 | 1 | 0 |
| Double du Constanti de Constant | Ü | , | · · |
| Non-related Serious adverse events | | | |
| Death due to intracerebral haemorrhage following | 0 | 1 | 0 |
| thrombectomy for acute thrombotic stroke | • | · | · |
| Hospitalisation due to myocardial infarction | 0 | 1 | 0 |
| Incapacitating flare of pre-existing multiple sclerosis | 0 | 0 | 1 |
| Hospitalisation for colitis of diverticular origin | 1 | ñ | 0 |
| Hospitalisation for avascular necrosis of hip, and total | 1 | 0 | 0 |
| hip replacement | • | O | J |
| Hospitalisation for elective percutaneous angioplasty | 0 | Ω | 1 |
| BCT = Best Current Treatment; BCT-US-Lidocaine = BCT plus Ultrasour | • | on of lidocaine only; BCT-U | IS- |

BCT = Best Current Treatment; BCT-US-Lidocaine = BCT plus Ultrasound guided injection of lidocaine only; BCT-US-Triamcinolone-Lidocaine = BCT plus Ultrasound guided injection of triamcinolone and lidocaine; NA not applicable

BCT-US-Triamcinolone-Lidocaine v BCT alone: Risk difference = 0.288 (0.153 to 0.418) → NNH = 3.47 (2.39 to 6.54)

BCT-US-Triamcinolone-Lidocaine v BCT-US-Lidocaine: Risk difference = -0.045 (-0.212 to 0.124) → NNH = -22.2 (-4.72 to 8.06)

^{*}Specific questions on 2-week and 2-month questionnaire. Recipients of injection were asked to complete a section on side effects and state if any other side effects from injection received.

^{**}For 'No of participants afflicted' in the above table, the estimates below for the CIs were extracted via the Wilson's score method (with continuity correction):-

Supplementary Table 7: Sensitivity analysis of pain intensity NRS scores (through multiple imputation analysis).

| Sensitivity analysis number | Time-point | BCT-US-Triamcinolone- Lidocaine v BCT | BCT-US-Triamcinolone- Lidocaine v BCT-US- Lidocaine |
|-----------------------------|------------|--|---|
| | | mean difference (95% CI) [P value] | mean difference (95% CI) [P value] |
| MI - 1 | 2 weeks | -3.13 (-3.96 to -2.31) [P<0.001] | -1.08 (-1.90 to -0.27) [P=0.01] |
| | 2 months | -1.72 (-2.66 to -0.79) [P<0.001] | -0.68 (-1.58 to 0.22) [P=0.14] |
| | 4 months | -0.76 (-1.76 to 0.25) [P=0.14] | -0.39 (-1.34 to 0.55) [P=0.41] |
| | 6 months | 0.18 (-0.74 to 1.11) [P=0.70] | 0.09 (-0.82 to 0.99) [P=0.85] |
| | Overall | -1.36 (-2.09 to -0.62) [P<0.001] | -0.52 (-1.24 to 0.20) [P=0.16] |
| MI - 2 | 2 weeks | -3.18 (-4.00 to -2.36) [P<0.001] | -1.10 (-1.91 to -0.28) [P=0.009] |
| | 2 months | -1.83 (-2.76 to -0.89) [P<0.001] | -0.66 (-1.56 to 0.24) [P=0.15] |
| | 4 months | -0.80 (-1.82 to 0.21) [P=0.12] | -0.33 (-1.29 to 0.62) [P=0.49] |
| | 6 months | 0.09 (-0.84 to 1.01) [P=0.85] | 0.09 (-0.82 to 0.99) [P=0.85] |
| | Overall | -1.43 (-2.17 to -0.69) [P<0.001] | -0.50 (-1.22 to 0.22) [P=0.17] |
| MI - 3 | 2 weeks | -3.09 (-3.91 to -2.27) [P<0.001] | -1.06 (-1.88 to -0.25) [P=0.01] |
| | 2 months | -1.62 (-2.55 to -0.68) [P=0.001] | -0.69 (-1.59 to 0.22) [P=0.14] |
| | 4 months | -0.71 (-1.70 to 0.29) [P=0.16] | -0.45 (-1.39 to 0.49) [P=0.35] |
| | 6 months | 0.27 (-0.65 to 1.20) [P=0.47] | 0.08 (-0.82 to 0.99) [P=0.86] |
| | Overall | -1.28 (-2.02 to -0.55) [P=0.001] | -0.53 (-1.25 to 0.19) [P=0.15] |
| MI - 4 | 2 weeks | -3.24 (-4.07 to -2.40) [P<0.001] | -1.11 (-1.94 to -0.28) [P=0.009] |
| | 2 months | -1.95 (-2.89 to -1.02) [P<0.001] | -0.64 (-1.54 to 0.27) [P=0.17] |
| | 4 months | -0.87 (-1.90 to 0.15) [P=0.09] | -0.26 (-1.23 to 0.71) [P=0.60] |
| | 6 months | -0.06 (-1.00 to 0.88) [P=0.90] | 0.08 (-1.00 to 0.85) [P=0.87] |
| | Overall | -1.53 (-2.28 to -0.79) [P<0.001] | -0.48 (-1.22 to 0.25) [P=0.20] |
| MI - 5 | 2 weeks | -3.01 (-3.84 to -2.18) [P<0.001] | -1.04 (-1.86 to -0.22) [P=0.01] |
| | 2 months | -1.45 (-2.40 to -0.51) [P=0.003] | -0.69 (-1.61 to 0.23) [P=0.14] |
| | 4 months | -0.65 (-1.63 to 0.34) [P=0.20] | -0.52 (-1.47 to 0.42) [P=0.28] |
| | 6 months | 0.39 (-0.54 to 1.33) [P=0.41] | 0.08 (-0.84 to 1.01) [P=0.86] |
| | Overall | -1.18 (-1.92 to -0.44) [P=0.002] | -0.54 (-1.27 to 0.19) [P=0.15] |

BCT = Best Current Treatment; BCT-US-Lidocaine = BCT plus Ultrasound guided injection of lidocaine only; BCT-US-Triamcinolone-Lidocaine = BCT plus Ultrasound guided injection of triamcinolone and lidocaine

Sensitivity analysis number: Multiple Imputation (MI) via chained equations ¹ MAR analysis; ²⁻⁵ NMAR analysis (² MAR plus 1-point higher imputation, ³ MAR plus 1-point lower imputation, ⁴ MAR plus 2.5-points higher imputation, ⁵ MAR plus 2.5-points lower imputation). Analyses were by linear regression adjusted for age, gender and baseline pain score

Supplementary Table 8: Evaluation of pre-specified exploratory subgroup analyses for the pain intensity score NRS measure.

| ВСТ | BCT-US- Triamcinolone- Lidocaine | BCT-US- Lidocaine | BCT-US- Triamcinolone- Lidocaine v BCT | BCT-US- Triamcinolone- Lidocaine v BCT- US-Lidocaine |
|-----------|---|--|---|--|
| mean (SD) | mean (SD) | mean (SD) | mean difference (95% CI) | mean difference (95% CI) |
| 4.7 (2.5) | 3.9 (2.6) | 4.1 (2.3) | -0.84 | -0.21 |
| 6.0 (2.7) | 4.3 (2.8) | 5.0 (2.6) | (-2.26 to 0.59) | (-1.76 to 1.38) |
| 5.6 (3.4) | 4.2 (2.7) | 4.0 (3.4) | -0.34 | -0.85 |
| 5.6 (2.5) | 4.1 (2.7) | 4.7 (2.5) | (-2.43 to 1.76) | (-3.49 to 1.79) |
| 4.6 (2.5) | 3.7 (2.7) | 4.2 (2.4) | -0.84 | -0.21 |
| 6.5 (2.5) | 4.6 (2.8) | 5.1 (2.7) | (-2.26 to 0.59) | (-1.63 to 1.21) |
| 5.5 (2.8) | 3.3 (2.3) | 5.0 (2.2) | 0.54 | 1.35 |
| 5.7 (2.6) | 4.3 (2.8) | 4.4 (2.6) | (-1.25 to 2.34) | (-0.44 to 3.13) |
| 5.7 (2.6) | 3.0 (1.9) | 3.6 (2.0) | 2.74 | -0.50 |
| 3.7 (2.7) | 4.2 (2.8) | 4.9 (2.5) | (-0.35 to 5.82) | (-3.87 to 2.87) |
| - | 4.2 (3.0) | 4.0 (2.5) | - | -1.70 |
| - | 4.2 (2.5) | 5.5 (2.4) | | (-3.10 to -0.30)† |
| | mean (SD) 4.7 (2.5) 6.0 (2.7) 5.6 (3.4) 5.6 (2.5) 4.6 (2.5) 6.5 (2.5) 5.7 (2.6) | Triamcinolone-Lidocaine mean (SD) mean (SD) 4.7 (2.5) 3.9 (2.6) 6.0 (2.7) 4.3 (2.8) 5.6 (3.4) 4.2 (2.7) 5.6 (2.5) 4.1 (2.7) 4.6 (2.5) 3.7 (2.7) 6.5 (2.5) 4.6 (2.8) 5.7 (2.6) 3.3 (2.3) 5.7 (2.6) 4.3 (2.8) 5.7 (2.6) 3.0 (1.9) 3.7 (2.7) 4.2 (2.8) | mean (SD) mean (SD) mean (SD) 4.7 (2.5) 3.9 (2.6) 4.1 (2.3) 6.0 (2.7) 4.3 (2.8) 5.0 (2.6) 5.6 (3.4) 4.2 (2.7) 4.0 (3.4) 5.6 (2.5) 4.1 (2.7) 4.7 (2.5) 4.6 (2.5) 3.7 (2.7) 4.2 (2.4) 6.5 (2.5) 4.6 (2.8) 5.1 (2.7) 5.5 (2.8) 3.3 (2.3) 5.0 (2.2) 5.7 (2.6) 4.3 (2.8) 4.4 (2.6) 5.7 (2.6) 3.0 (1.9) 3.6 (2.0) 3.7 (2.7) 4.2 (2.8) 4.9 (2.5) | mean (SD) mean (SD) mean (SD) mean (SD) mean (SD) mean difference (95% CI) 4.7 (2.5) 3.9 (2.6) 4.1 (2.3) -0.84 6.0 (2.7) 4.3 (2.8) 5.0 (2.6) (-2.26 to 0.59) 5.6 (3.4) 4.2 (2.7) 4.0 (3.4) -0.34 5.6 (2.5) 4.1 (2.7) 4.7 (2.5) (-2.43 to 1.76) 4.6 (2.5) 3.7 (2.7) 4.2 (2.4) -0.84 6.5 (2.5) 4.6 (2.8) 5.1 (2.7) (-2.26 to 0.59) 5.5 (2.8) 3.3 (2.3) 5.0 (2.2) 0.54 5.7 (2.6) 4.3 (2.8) 4.4 (2.6) (-1.25 to 2.34) 5.7 (2.6) 3.0 (1.9) 3.6 (2.0) 2.74 3.7 (2.7) 4.2 (2.8) 4.9 (2.5) (-0.35 to 5.82) |

BCT = Best Current Treatment; BCT-US-Triamcinolone-Lidocaine = BCT plus Ultrasound guided injection of triamcinolone and lidocaine; BCT-US-Lidocaine = BCT plus Ultrasound guided injection of lidocaine only; IPQ = Illness Perceptions Questionnaire; BMI = Body Mass Index.

The between-group estimates are derived from the interaction term for treatment group x baseline variable and where the dependent variable is the numerical pain NRS at follow up and including the baseline covariates of age, gender and baseline pain score.

^{*} Injection subgroups only.

[†] P=0.017 (magnitude of between-group differences across time were: -0.8 at 2 weeks, -1.9 at 2 months, -1.9 at 4 months, -1.9 at 6 months)