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| Appendix 5. Summary of the literature evaluating multi-joint injections. |
| **Author/Year** | **Target** | **Study Design** | **Level of Evidence** | **Subject Type/Number** | **Accuracy Confirmation** | **Outcome** |
| Sibbit 2011[127](#_ENREF_127) | Joints with inflammatory arthritis | Prospective, randomized comparison of USGI vs. LMGI efficacy and cost-effectiveness | Level 2 | 244 live human subjects | None | USGI = less procedural pain, more pain relief, more responders, less non-responders, and less expense than LMGI |
| Cunnington 2010[126](#_ENREF_126) | Joints with inflammatory arthritis | Prospective, randomized comparison of USGI vs. LMGI accuracy and efficacy  | Level 1 = accuracy, Level 2 = efficacy | 184 live human subjects | Arthrogram | USGI = 83% accurate, LMGI = 66% accurate, USGI = more clinical improvement and pain reduction at 6 weeks compared to LMGI |
| Sibbitt 2009[128](#_ENREF_128) | Painful joints | Prospective, randomized comparison of USGI vs. LMGI efficacy | Level 2 | 148 live human subjects | None | USGI = less procedural pain, and more pain relief, ability to detect and aspirate effusions, more responders, and less non-responders than LMGI |
| USGI = ultrasound-guided injection, vs = versus, LMGI = landmark-guided injection |