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| Subject: | Genicular Nerve Blocks and Ablation for Chronic Knee Pain | Publish Date: | 01/04/2023 |
| Document #: | SURG.00142 | Last Review Date: | 11/10/2022 |
| Status: | Reviewed | | |

Description/Scope

This document addresses genicular nerve blocks and genicular radiofrequency ablation, also called genicular neurotomy, genicular denervation or cooled radiofrequency therapy, as a treatment for the management of chronic knee pain. This document does not apply to regional anesthetic blocks or acute surgical pain. This document does not apply to the use of peripheral nerve blocks (for example sciatic and/or femoral nerve blocks) as an adjunct to systemic analgesia in the perioperative period for major knee surgery.

Note: Please see the following related documents for additional information:

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Additional required information

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- DME.00011 Electrical Stimulation as a Treatment for Pain and Other Conditions: Surface and Percutaneous Devices
- SURG.00140 Peripheral Nerve Blocks for Treatment of Neuropathic Pain
- SURG.00155 Cryoneurolysis

Position Statement

Investigational and Not Medically Necessary:

Genicular nerve blocks and genicular nerve ablation are considered **investigational and not medically necessary** for the treatment of chronic knee pain, including but not limited to any of the following:

- Degenerative joint disease;
- Osteoarthritis of the knee;
- As a treatment prior to knee replacement;
- As a treatment following knee replacement;
- As a treatment for individuals who are not candidates for knee replacement surgery.

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Rationale

Genicular nerve blocks and genicular radiofrequency ablation are proposed treatments for chronic knee pain that has not been effectively managed by pharmacologic or other therapies. Published studies have evaluated the use of nerve blocks for the diagnosis and treatment of neuralgias and neuropathic pain conditions; however, there is a lack of published adequately designed trials concerning the use of genicular nerve blocks and radiofrequency ablation as treatments for chronic knee pain.

In a 2011 randomized controlled trial by Choi and colleagues, the authors investigated whether radiofrequency ablation applied to articular nerve branches (genicular nerves) was effective in treating chronic knee joint osteoarthritis pain. The 38 study participants (who had severe knee osteoarthritis lasting longer than 3 months) were randomized to two treatment arms; radiofrequency ablation (n=19) or control group (n=19). Using a visual analog scale (VAS), Oxford Knee Score (OKS), and Global Perceived Effect (GPE) on a 7-point scale, measurements were taken at baseline, and at 1, 4, and 12 weeks following the procedure. At the 4-week point, the VAS showed the radiofrequency group had less knee joint pain than the control group. Similar findings were noted in the OKS.

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There were no post-procedure adverse events reported during the follow-up period. While this study showed pain reduction in those with chronic knee osteoarthritis pain, the authors concluded that “further trials with larger sample size and longer follow-up are warranted.”

In a 2016 randomized study by Qudsi-Sinclair and colleagues, 28 participants with continued knee pain following total knee arthroplasty were evaluated after having received traditional radiofrequency (n=14) or local anesthetic and corticosteroid block of the genicular nerves in the knee (n=14). In this double-blind, randomized study, the participants were followed for 1 year. During the first 3 to 6 months, an improvement in joint function and a reduction in pain were shown, with the results being similar between the two treatment arms. While the study showed improvement in both groups, the authors noted that further studies should be done with larger sample sizes to determine if there are any long-term adverse effects.

Santana Pineda and colleagues (2017) reported on a prospective study in which 25 participants with chronic osteoarthritis of the knee received radiofrequency ablation of genicular nerves. Follow-up evaluations were done at 1, 6, and 12 months after the procedure. The primary outcome measure was the change from baseline knee pain using VAS. Those who reported an improvement of 50% or greater in pretreatment VAS 1, 6, and 12 months

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following intervention were 22/25 (88%), 16/25 (64%) and 8/25 (32%), respectively. The study did not control for or assess post-procedural medication or physical therapy use. The observational, noncontrolled, unblinded design of this study allows the possibility that these subjectively reported results may have been influenced by placebo effects and reporter biases. While improvement was noted following the radiofrequency procedure, the authors stated that “Larger-scale studies are needed to confirm the results and address the safety aspects in other populations.”

In a 2018 randomized study by El-Hakeim and colleagues, the authors reported on the efficacy of genicular radiofrequency neurotomy for pain due to knee osteoarthritis. There were 30 participants who received radiofrequency compared to 30 participants who received only conventional analgesics. Participants were followed for 6 months. Outcomes were measured by WOMAC, VAS, and a Likert scale to assess member satisfaction. Although the scores were reviewed by an investigator who was unaware of each participant’s study group, the participants themselves were aware of whether they received radiofrequency ablation or not. VAS scores were lower in the radiofrequency group at all follow-up times. WOMAC scores were also reported as better in the radiofrequency group. The small cohorts, single-center design, potential placebo effects, and short-term follow-up limit the generalizability of these findings. Further study is needed to confirm these results.

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A 2018 study by Davis and colleagues reported on the safety and efficacy of genicular CRFA compared to intra-articular steroid (IAS) injection for individuals with osteoarthritis of the knee. In this prospective, randomized, cross-over trial, study participants were included if they had a known diagnosis of osteoarthritis of the knee, complaints of knee pain for at least 6 months that was unresponsive to conservative treatment, NRS pain score of 6 or greater, OKS of 35 or less, positive diagnostic genicular nerve block (defined as a decrease of $\geq 50\%$ in NRS score), and, if the participant was taking an opioid or other morphine-equivalent medication, the dose was clinically stable. Participants were allowed to use analgesics as needed during the study. A total of 138 participants proceeded to treatment; 67 participants received genicular CRFA and 71 participants received IAS. Participants were assessed at baseline and at 1, 3, and 6 months following treatments. After 6 months of treatment, the participants randomized to the IAS cohort were allowed to crossover and receive CRFA. Using the 11-point NRS, the primary efficacy outcome was the proportion of participants whose knee pain was reduced by 50% or greater from baseline at 6 months after treatment. Secondary outcomes included change in knee function detected by OKS, participant perception of treatment effect as reflected by the GPE score, and opioid and nonopioid (nonsteroidal anti-inflammatory drugs) analgesic use measured by self-reported average daily dosage used. The mean baseline pain score were 7.3 ± 1.2 for the 76 participants in the CRFA group and 7.2 ± 1 for the 75 participants in the IAS group. At the 6-month visit, the NRS score was 2.5 ± 2.3 in the CRFA group (n=58) and 5.9 ± 2.2 in the intra-articular

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steroid group (n=68). A total of 43/58 (74% - 95% CI, 62.9–85.4%) participants in the CRFA and 11/68 (16% 95% CI, 7.4–24.9%) participants in the IAS group had $\geq 50\%$ reduction in NRS score at 6 months. The mean OKS in each study cohort did not significantly differ at baseline and improved at all end points in both study groups. The differences between mean OKS improvement (and 95% CIs) were significantly better for CRFA than for the IAS group at 1 month (4, 0.98 – 7, $p=0.004$), 3 months (10, 7.28 – 12.7, $p < 0.0001$) and at 6 months (13.3, 10.28 – 16.4, $p < 0.0001$). At 6 months, 53/58 participants (91%, 95% CI 83.9–98.8) in the CRFA cohort reported improved GPE compared to the participants 16/67 (24%, 95% CI 13.4–34.4) in the IAS. At baseline, 33 participants in the CRFA group required nonopioid medication and 34 participants in the IAS group required nonopioid medication. At 6 months, mean nonopioid drug dose use was -34.5 ± 128.9 mg in the CRFA group and 135.5 ± 391 mg in the IAS group. No procedure-related serious adverse events were reported. At 6 months, 74.1% of CRFA participants reported reduced index knee pain by at least 50% compared to 16.2% in participants treated with IAS injections. GPE improved in 91% of the CRFA group compared to 24% in the IAS group. Opioid analgesic use was not different between the two groups and remained similar to baseline use. While this study suggests that, when compared with a single IAS injection, CRFA provides a reduction in knee pain associated with improved knee function, the study has several limitations. The participants received only one IAS injection over a 6-month period, the study was not blinded, and the study questionnaires were self-administered. There was a lack of a true control

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group since IAS injections are considered analgesics. There was no formal recording of medication usage in this study. This allowed for the potential for error and/or inability to identify acute changes in medication dosage during the study. Since participants in both study groups used opioids for medical indications other than osteoarthritis-related knee pain, the effect of each treatment on opioid use could not be specifically measured. Further studies with a true control group and consistent tracking of additional medication usage are necessary to determine efficacy of genicular CRFA for osteoarthritis-related knee pain.

As a follow-up, Davis and colleagues (2019) reported on the proportion of individuals from the Davis 2018 cohort who had reduction in knee pain by $\geq 50\%$ from baseline to 12 months. The focus of the Davis 2019 study was to describe the individual's experience through 12 months. Reduction in knee pain at 12 months was evaluated using the NRS. Secondary endpoints included change in knee function using the OKS, participant perception of treatment measured by the GPE score, and opioid analgesic use by self-reporting. At 12 months, 52 of the original 78 participants in the original CRFA group and 4 of the original 75 IAS group members completed the NRS assessment tool. The IAS cohort was significantly reduced in size because 58 of its participants crossed over to the CRFA group 6 months after their IAS injection. Twelve months after the study intervention, there were no significant differences between the CRFA group and the IAS group in the mean NRS score (3.1 for CRFA vs. 3.3

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for IAS, $p=0.99$), OKS (34.3 for CRFA vs. 22 for IAS, $p=0.11$), or in the percentage of participants with improved (75 for CRFA vs. 50 for IAS, $p=0.29$). In the CRFA group, the mean total daily dose of opioid analgesic medication at 12 months was similar to baseline. Between 6 and 12 months, there were 81 adverse events that occurred in the CRFA group. These included pain in the index knee, pain in the non-index knee, musculoskeletal pain, and falls. This study shares the limitations outlined above for the original study. Significant cross-over led to severe attrition in the IAS group. This prevents reasonable conclusions from being drawn about the relative effects of CRFA and IAS at 12 months.

In another study using the original participants from the Davis 2018 cohort, Hunter and colleagues (2020) reported on outcomes of participants at 18 and 24 months after CRFA. This extended outcome study included 33 of the 151 participants from the 2018 cohorts (19 from the CRFA arm, 14 from the crossover arm, and 0 from the ISA-only arm). At 18 months after CRFA, 25 participants were evaluated. The mean NRS pain score for these 25 participants was 3.1 with a mean OKS of 47.2. Only 18 participants remained at the 24 months evaluation. Using the NRS, mean pain score was 3.6 and OKS was 46.8. Perceived improvement of the GPE score was reported by 20 of the 25 participants remaining for evaluation at 18 months and by 12 of the 18 who remained at 24 months. No adverse

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events were reported at 18 and 24 months after CRFA. In addition to the limitations noted above for the original study, this follow-up is further limited by significant attrition in the studied population.

In a 2021 study by Yilmaz and colleagues, the authors reported on 40 participants with osteoarthritis of the knee who received either IAS injections (n=20) or IAS injections plus genicular nerve block (n=20). Severity of pain was assessed using a VAS (0-10) and the Leeds Assessment of Neuropathic Symptoms and Signs pain scale. Functional status was assessed using the Western Ontario and McMaster Universities Osteoarthritis Index (WOMAC). Quality of life was assessed by the Nottingham Health Profile. Participants were assessed at baseline, 1 month and 3 months following injections. In the IAS injection only group, the baseline and 3-month VAS was 6.75 and 1.50 for the IAS group compared to 6.65 and 3.0 for the IAS + genicular nerve block group. Baseline and 3-months Leeds Assessment of Neuropathic Symptoms and Signs pain scales were 13.40 and 6.70 for the IAS group compared to 14.35 and 8.4 for the IAS + genicular nerve block group. For the WOMAC score, the baseline and 3-months scores were 51.57% and 35.06% for the IAS group and 54.26% and 48.74% for the IAS + genicular nerve block group. The baseline and 3-month Quality of Life scores were 27.69 and 21.90 for the IAS group compared to 28.15 and 25.63 for the IAS + genicular nerve block group. The Quality of Life score in the IAS injection plus genicular nerve block group only improved from baseline to 1 month evaluation. While both treatment groups showed

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improvements in pain and quality of life scores, the IAS injection only group showed greater improvements than the steroids plus genicular nerve block group. Limitations of this study include its small size and the lack of comparison between genicular nerve block to treatments other than IAS injection.

Chen and colleagues (2020a) reported the 6-month results of an industry-sponsored randomized, multicenter study comparing CRFA of the genicular nerve to a single injection of intra-articular hyaluronic acid. The authors acknowledged that the Food and Drug Administration (FDA) has questioned hyaluronic acid's mechanism of action in treatment of knee pain and that "clinical practice guidelines for orthopaedic surgeons do not currently recommend hyaluronic acid for the treatment of knee osteoarthritis pain." All participants received genicular nerve block. Pain was assessed using the NRS. The CRFA group had a mean NRS pain score at baseline of 6.5 and 0.6 following the block. The intra-articular hyaluronic acid group had a mean NRS pain score of 6.5 at baseline and 0.5 after the block. Following the blocks, those who experienced greater than or equal to 50% reduction in pain within 15 minutes after the block were randomized to the CRFA group (n=88) or to the single intra-articular hyaluronic acid injection group (n=87). The primary endpoint was the proportion of individuals who had knee pain reduced by greater than or equal to 50% from baseline to 6 months following treatment. Knee pain, function, and stiffness was assessed by WOMAC. Treatment effect was assessed by GPE and the EuroQol-5 Dimensions-5 Level (EQ-5D-5L)

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questionnaire. At the 6-month evaluation, 76 (87%) participants in the CRFA group and 82 (94%) in the intra-articular hyaluronic acid group were available for evaluation. The authors report a mean NRS score reduction of 4.1 in the CRFA group with 71% of participants reporting greater than or equal to 50% reduction in pain. In the intra-articular hyaluronic acid group, the mean NRS score reduction was 2.5 with 38% of participants reporting greater than or equal to 50% reduction in pain. Mean WOMAC score at baseline in the CRFA group was 66.1 compared to 67.7 in the intra-articular hyaluronic acid group. At the 6-month evaluation, the mean total WOMAC scores in the CRFA were 33.6 and 53.6 in the intra-articular hyaluronic acid group. Between-group differences were statistically significant at all follow-up intervals for the WOMAC total score as well as for the WOMAC pain, physical functioning scores. Differences for the WOMAC knee stiffness scores were significant at the 3 and 6 month follow-ups. In terms of GPE, 1 month after treatment, the CRFA group had 18 participants with 'not improved' or 'worse' condition and 69 participants who 'felt improvement' compared to 32 and 52 in the intra-articular hyaluronic acid group, respectively. At the 6-month evaluation, the CRFA group had 21 participants with 'not improved' or 'worse' condition and 55 participants who 'felt improved'. The intra-articular hyaluronic acid group had 49 participants with 'not improved' or 'worse' condition and 33 participants who 'felt improvement'. The mean EQ-5D-5L Index score at baseline in the CRFA group was 0.67 and 0.80 at 6 months following treatment. Mean baseline score in the intra-articular hyaluronic acid group was 0.66 and 0.72 after 6 months. Overall, there were 94 adverse events in the

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CRFA group and 63 in the intra-articular hyaluronic acid group. The CRFA group had 18 adverse events deemed to have a relationship to treatment compared to 9 adverse events in the intra-articular hyaluronic acid cohort. This study has several limitations beginning with the selection of a questionably effective treatment (hyaluronic acid) as the comparison group. Potentials for bias exist due to industry sponsorship, the open-label design, and lack of blinding. Significantly more CRFA group members (11/87, 12.6%) were lost to follow-up compared to the intra-articular hyaluronic acid cohort (3/84, 3.6%). There were also only 8 participants in the CRFA group and 7 in the intra-articular hyaluronic acid group who reported taking opioid medication at baseline. With such low numbers, the authors reported difficulty measuring trends regarding opioid consumption following treatment. This study took place across several medical centers with imbalanced enrollment at several of the sites. Further well-designed, randomized controlled trials comparing CRFA to guideline-directed therapy are necessary to support reasonable conclusions about the effectiveness of genicular nerve CRFA.

Using the same cohort in the 2020a Chen study above, Chen and colleagues (2020b) reported on participants in the intra-articular hyaluronic acid group who were invited to “crossover” to receive CRFA treatment 6 months after their hyaluronic acid injection. These participants were then followed for an additional 6 months. The original CRFA group was also evaluated after the additional 6 months. Twelve months after the original study start date, 66

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(75%) of the participants from the CRFA group were available for evaluation. In the original intra-articular injection group, 68 participants (78%) chose to cross over and receive CRFA. There were 62 crossover participants available for evaluation at 12 months. A total of 14 participants who received intra-articular injection did not crossover and 11 of them were available for evaluation at 12 months. In the original CRFA group, 43 participants (65%) reported pain reduction greater than or equal to 50% using the NRS pain scale. The mean NRS pain score was 2.8 at 12 months compared to the mean baseline score of 6.9. Mean total WOMAC score at 12 months was 33.2. Using GPE, 63.3% of participants reported improved knee condition. The mean EQ-5D-5L Index score was 0.81 compared to a mean baseline of 0.67. There were 47 adverse events reported and all were deemed unrelated or unlikely related to treatment. In the crossover group, 40/62 participants reported greater than or equal to 50% reduction in pain. The mean NRS score was 5.1 in this crossover group prior to receiving the CRFA. At 6 months after receiving CRFA, the mean NRS score was 3.0. Mean total WOMAC score at 12-months was 38.4. Using GPE, 62.9% reported improved knee condition. The mean EQ-5D-5L Index score was 0.79 compared to the mean baseline of 0.65. There were 68 adverse events with 62 unrelated to the treatment, 1 was unlikely to have been related, 2 were possibly related, and 3 were probably related to treatment. Of the 11 participants in the original intra-articular injection group available at the 12-month evaluation, 10 reported greater than or equal to 50% reduction in pain. The mean NRS score at baseline was 6.9 and 1.5 at 12 months. There were 8 adverse events

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reported and all were deemed unrelated or unlikely related to treatment. While this study suggests individuals who initially receive intra-articular hyaluronic acid injections can benefit from CRFA afterwards, this study has the same limitations noted above for the Chen 2020a study as well as an additional limitation from the nearly total elimination of the control group by the cross over intervention.

In a planned extension of the Chen study discussed above, Lyman and colleagues (2022) compared CRFA of genicular nerves to a single hyaluronic injection in 57 participants. Efficacy was assessed at 18 and 24 months by using NRS, WOMAC, the GPE scale, and the EQ-5D- 5L questionnaire. At 24 months, most participants reported pain relief and improvement in function and quality of life. However, only 27 participants were available for follow-up at 24 months. And those from the Chen study who received the hyaluronic injection were not followed out for 24 months. Therefore, there was no true comparison group.

In a 2021 randomized trial of 64 participants, Elsaman and colleagues reported outcomes for individuals with osteoarthritis of the knee who received either genicular nerve block (n=33) or IAS injections (n=31). Follow-up was for 12 weeks. Assessment was done using sonography of large joints in Rheumatology (SOLAR) scoring, VAS, and Lysholm score. Pain improved in both treatment groups with no significant between-group differences.

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A 2022 randomized trial by Ghai and colleagues reported results for 30 individuals with osteoarthritis of the knee who had either radiofrequency of the genicular nerves or genicular nerve block using local anesthetic and steroid. Follow-up assessments were made 12 weeks after the procedures using WOMAC scores and a verbal NRS. The verbal NRS scores decreased in both groups and WOMAC scores improved in both groups. Neither treatment group was found to be better than the other.

Another randomized trial in 2022 compared genicular nerve block to physical therapy in participants with knee osteoarthritis. Güler and colleagues reported on 51 participants who received genicular nerve block and 51 participants who received physical therapy along with a standard home exercise program. Follow-up assessments were done after 12 weeks. These assessments were done using VAS, WOMAC score, and a 6 minute walk test. Both treatment groups improved during the course of the study with no significant differences between the treatment groups.

Two retrospective chart reviews (Innaccone, 2017; Konya, 2020) reported on individuals who received radiofrequency ablation of the genicular nerves due to knee osteoarthritis. Participants were evaluated for 6 months

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following treatment. While there was reported improvement in pain following radiofrequency ablation, the lack of a control group, high attrition rate and potential for selection bias limit the findings. Other retrospective reviews (Kapural, 2019; McCormick, 2017) reported on the efficacy of CRFA for knee osteoarthritis. Lack of a control group, lack of consistent treatments, and varying follow-up times make generalizability difficult.

Several systematic reviews and meta-analyses have been published (Chen, 2021; Gupta, 2017; Hong, 2019; Jamison, 2018; Liu, 2022; Tan, 2022) evaluating the use of CRFA and genicular nerve blocks for treatment knee osteoarthritis. The heterogeneous procedural and assessment methods, inconsistent follow-up periods, and differing comparison treatments used in these studies makes it difficult to form reasonable conclusions about the benefits of this procedure.

At this time published studies lack true control groups or have serious methodologic problems that prevent reasonable conclusions on net health outcomes or treatment-guiding conclusions from their results.

Background/Overview

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Chronic osteoarthritis of the knee is one of the most common diseases of advanced age. With up to 20 million adults in the United States suffering from osteoarthritis of the knee, close to 700,000 cases progress to total knee joint replacement. Many individuals with chronic joint pain, however, are not candidates for invasive procedures due to body mass index, age and other comorbidities. Alternative therapies including arthroscopic debridement or injections are associated with less than optimal clinical outcomes. In addition to osteoarthritis, adults can experience knee pain due to a number of other causes, and an estimated 10-34 % of individuals experience long-term pain after a total knee replacement.

When an individual exhibits knee pain, the pain signals can be generated from the peripheral nerves innervating the knee including several branches of the genicular nerve. A diagnostic genicular nerve block consists of placing a small amount of local anesthetic, on the genicular nerves to determine if there is sufficient pain relief in the knee to justify performing a therapeutic neurotomy. Radiofrequency ablation of the genicular nerves is then performed to restore function and alleviate knee pain.

Definitions

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Cooled Radiofrequency Ablation (CRFA): a modification of conventional radiofrequency ablation (see below) that uses a flow of water to draw heat away from the radiofrequency ablation probe tip. This reduces damage to collateral tissues.

EuroQol-5 Dimensions-5 Level (EQ-5D-5L) Index: A standardized questionnaire-based tool developed by the EuroQol Group that assesses quality of life (QoL) in 5 dimensions (mobility, self-care, usual activities, pain/discomfort and anxiety/depression). Each dimension is assessed at 5 levels of severity. Higher scores indicate greater degrees of pain, anxiety, or limited function. The scores for the separate dimensions can be combined into a single measure of the individuals QoL at the time the tool is administered. EQ-5D has been validated in a wide variety of populations.

Numeric Rating Scale (NRS): A pain measurement tool in which the individual says or marks a discrete number within a range. Commonly used ranges are 0 – 10 (1, 2, 3, - 10), 0 -20, and 0 – 100 in which 0 represents “no pain” and the upper limit represents “the worst pain I have ever had”. NRS is similar to VAS but is not continuous. It does not recognize responses between integers. It is thus less granular than VAS but can be used when VAS cannot

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be used, for example with vision-impaired individuals and during telephone interviews. Results are considered generally comparable to VAS.

Likert Scale: a psychometric tool used in questionnaires to assess an individual's subjective state. Participants are asked to choose a value from a set arranged from strongly positive to strongly negative (or vice versa). A typical example would be to rate your level of agreement to a statement as: strongly disagree, somewhat disagree, neutral, somewhat agree, or strongly agree.

Lysholm Score: A questionnaire developed to an individual's condition after knee ligament surgery. The tool assesses pain, swelling, limping, use of canes or crutches, locking or giving way of the knee, and the ability to climb stairs and to squat. Possible Lysholm scores range from 0 – 100 with higher scores indicating less pain, swelling and dysfunction.

Osteoarthritis: A degenerative condition of the joints that causes destruction of the material in the joints that absorbs shock and allows proper movement.

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Oxford Knee Score (OKS): A 12-question tool used to assess pain and function of the knee. Items are given a score between 1 and 5, with higher scores indicating higher levels of pain or dysfunction. The test has been shown to have good evidence of validity and strong inter-test reliability.

Patient Global Impression of Change (PGIC) score: a single-question assessment tool that asks an individual to describe the amount of change in activity limitation, symptoms, emotions, and quality of life. The 7 possible responses range from “No change (or condition is worse)”, scored as 1 point, to “considerable improvement” scored as 7 points.

Radiofrequency ablation (also known as conventional radiofrequency ablation): A surgical procedure where diseased cells are destroyed using heat produced by high-frequency radio waves.

Visual Analog Scale (VAS): A pain measurement tool in which an individual indicates their level of pain by placing a mark along a continuous line between end points that represent “no pain” and “the worst pain I have ever had”. The scale commonly uses a 10cm line on which the position of the mark can be reported in centimeters (0.0 –

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10.0) or millimeters (0 – 100). VAS is widely used in clinical medicine and research and is considered a valid measure of a subjective phenomenon.

Western Ontario and McMaster Universities Osteoarthritis Index (WOMAC): A set of validated questionnaires used objectively to assess the condition of individuals with osteoarthritis of the knee or hip. The result is reported as a total score, pain score, stiffness score, and physical functioning score. Higher scores indicate worse pain, stiffness or physical functioning.

Coding

The following codes for treatments and procedures applicable to this document are included below for informational purposes. Inclusion or exclusion of a procedure, diagnosis or device code(s) does not constitute or imply member coverage or provider reimbursement policy. Please refer to the member's contract benefits in effect at the time of service to determine coverage or non-coverage of these services as it applies to an individual member.

When services are Investigational and Not Medically Necessary:

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| 64454 | Injection(s), anesthetic agent(s) and/or steroid; genicular nerve branches, including imaging guidance, when performed |
| 64624 | Destruction by neurolytic agent, genicular nerve branches including imaging guidance, when performed |
| 64999 | Unlisted procedure, nervous system [when specified as cooled or pulsed RF therapy (not destruction) to genicular nerve(s)] |

ICD-10 Diagnosis

| | |
|-----------------|--|
| M08.861-M08.869 | Other juvenile arthritis, knee |
| M08.961-M08.969 | Juvenile arthritis, unspecified, knee |
| M12.561-M12.569 | Traumatic arthropathy, knee |
| M12.861-M12.869 | Other specific arthropathies, not elsewhere classified, knee |
| M13.161-M13.169 | Monoarthritis, not elsewhere classified, knee |
| M13.861-M13.869 | Other specified arthritis, knee |
| M17.0-M17.9 | Osteoarthritis of knee |

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| M21.061-M21.069 | Valgus deformity, not elsewhere classified, knee |
| M21.161-M21.169 | Varus deformity, not elsewhere classified, knee |
| M21.261-M21.269 | Flexion deformity, knee |
| M22.00-M22.92 | Disorder of patella |
| M23.000-M23.92 | Internal derangement of knee |
| M24.361-M24.369 | Pathological dislocation of knee, not elsewhere classified |
| M24.461-M24.469 | Recurrent dislocation, knee |
| M24.561-M24.569 | Contracture, knee |
| M24.661-M24.669 | Ankylosis, knee |
| M25.361-M25.369 | Other instability, knee |
| M25.561-M25.569 | Pain in knee |
| M25.661-M25.669 | Stiffness of knee, not elsewhere classified |
| M25.761-M25.769 | Osteophyte, knee |
| M25.861-M25.869 | Other specified joint disorders, knee |
| M66.0 | Rupture of popliteal cyst |
| M67.361-M67.369 | Transient synovitis, knee |

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|-------------------|---|
| M67.461-M67.469 | Ganglion, knee |
| M67.50-M67.52 | Plica syndrome |
| M67.861-M67.869 | Other specified disorders of synovium and tendon, knee |
| M70.40-M70.42 | Prepatellar bursitis |
| M70.50-M70.52 | Other bursitis of knee |
| M71.20-M71.22 | Synovial cyst of popliteal space |
| M71.561-M71.569 | Other bursitis, not elsewhere classified, knee |
| M92.40-M92.42 | Juvenile osteochondrosis of patella |
| M92.501-M92.529 | Juvenile osteochondrosis of tibia and fibula |
| M94.261-M94.269 | Chondromalacia, knee |
| S80.00XA-S80.02XS | Contusion of knee |
| S83.101A-S83.196S | Subluxation and dislocation of knee |
| S83.401A-S83.92XS | Sprain of knee |
| S87.00XA-S87.02XS | Crushing injury of knee |
| T84.84XA-T84.84XS | Pain due to internal orthopedic prosthetic devices, implants and grafts |
| Z96.651-Z96.659 | Presence of artificial knee joint |

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Peer Reviewed Publications:

1. Chen AF, Khalouf F, Zora K, et al. Cooled radiofrequency ablation compared with a single injection of hyaluronic acid for chronic knee pain: a multicenter, randomized clinical trial demonstrating greater efficacy and equivalent safety for cooled radiofrequency ablation. *J Bone Joint Surg Am.* 2020a; 102(17):1501-1510.
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5. Davis T, Loudermilk E, DePalma M et al. Prospective, multicenter, randomized, crossover clinical trial comparing the safety and effectiveness of cooled radiofrequency ablation with corticosteroid injection in the management of knee pain from osteoarthritis. *Reg Anesth Pain Med.* 2018; 43(1):84-91.
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Genicular Nerve Blocks and Ablation for Chronic Knee Pain

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Medical Policy

SURG.00142

Genicular Nerve Blocks and Ablation for Chronic Knee Pain

Genicular nerve block
Osteoarthritis
Radiofrequency ablation

Document History

| Status | Date | Action |
|----------|------------|--|
| Reviewed | 11/10/2022 | Medical Policy & Technology Assessment Committee (MPTAC) review. Updated Rationale, Definitions, References, and Index sections. |
| Reviewed | 11/11/2021 | MPTAC review. Updated Rationale and References sections. |
| Reviewed | 11/05/2020 | MPTAC review. Updated Rationale and References sections. |
| | 10/01/2020 | Updated Coding section with 10/01/2020 ICD-10-CM changes; added M92.501-M92.529 replacing M92.50-M92.52 deleted 09/30/2020. |
| | 07/01/2020 | Added cross reference to SURG.00155 Cryoneurolysis for Treatment of Peripheral Nerve Pain. |

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| Reviewed | 11/07/2019 | MPTAC review. Updated Rationale and References sections. Updated Coding section with 01/01/2020 CPT changes; added 64454, 64624 replacing 64450, 64640. |
| | 04/24/2019 | Updated Description/Scope section. |
| Reviewed | 11/08/2018 | MPTAC review. Updated Rationale and References sections. |
| Reviewed | 02/27/2018 | MPTAC review. The document header wording updated from “Current Effective Date” to “Publish Date.” Updated Rationale and References sections. |
| Reviewed | 02/02/2017 | MPTAC review. Updated Rationale and References sections. |
| New | 02/04/2016 | MPTAC review. Initial document development. |

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