

1 **Clinical Practice Guideline:**        **Ultrasound and Fluoroscopic (Non-Spinal)**  
2    **Guidance for Needle Placement and Fluoroscopy**  
3    **(Separate Procedure)**

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5 **Date of Implementation:**           **February 18, 2016**

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7 **Product:**                               **Specialty**  
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## 10 **GUIDELINES**

11 American Specialty Health – Specialty (ASH) considers CPT code 76000 to be medically  
12 necessary in limited situations within an office-based setting that will be identified on a  
13 case-by-case basis. This code is most often bundled with a surgical procedure and not  
14 separately billable.

15  
16 CPT code 76000 - Fluoroscopy (up to 1 hour physician time) is intended for use as stand-  
17 alone code when fluoroscopy is the only imaging performed. The most common  
18 scenarios include imaging that is not described by a separate supervision and  
19 interpretation (S&I) code and when a radiologist assists another physician in the  
20 performance of a procedure.

21  
22 The following clinical examples illustrate when fluoroscopy is used as a stand-alone  
23 code:

- 24 1. A patient presents to the radiology department with a prior joint X-ray series, which  
25 demonstrates a calcified body near the joint. The radiologist uses fluoroscopy with  
26 the joint flexed, extended and rotated to determine if the calcification is indeed loose  
27 within the joint. Again, since fluoroscopy is the only imaging performed, CPT code  
28 76000 would be used. In this example, there is both physician work and technical  
29 expense in providing the fluoroscopic service. Fluoroscopy requires personal  
30 supervision, i.e., the physician must be in attendance in the room during the  
31 performance of the procedure. If the radiologist is not present in the room during a  
32 fluoroscopic imaging procedure, CPT code 76000 should not be coded.
- 33 2. Another example is when there is no other fluoroscopy code that more accurately  
34 describes the imaging performed (i.e., code 77001, 77002, or 77003). For example, a  
35 patient steps on a needle and fluoroscopy (C-arm) is used to assist the physician to  
36 locate and remove this foreign body from the skin wound. In this instance, if C-arm  
37 fluoroscopic imaging is being provided without a diagnostic radiologic examination  
38 (i.e., no hard copy record of the images is produced), then code 76000 should be used  
39 to identify the imaging procedure provided.

40  
41 ASH considers CPT Code 76942 - Ultrasound guidance for needle injections to be  
42 medically necessary in limited situations. The codes 20604, 20606, and 20611 include the

1 descriptor, “with ultrasound guidance, with permanent recording and reporting.” These  
 2 codes specifically address ultrasound guidance and require that the report be included in  
 3 the patient’s permanent record. These are the codes that should be used for specific joint  
 4 and soft tissue injection, etc. rather than CPT code 76942. Refer to the *Joint and Soft*  
 5 *Tissue Arthrocentesis, Aspiration, and Injection (CPG 196 – S)* clinical practice guideline  
 6 for more detailed guidelines governing the use of CPT codes 20604, 20606, and 20611.

7  
 8 Other considerations:

- 9 A. According to clinical literature and practicing physician input, ultrasound guidance  
 10 may not be reasonable and necessary and is not the established standard of care for all  
 11 needle placement procedures.
- 12 B. Ultrasound guidance for viscosupplement injections is considered experimental and  
 13 investigational because it has not been established that this approach will improve  
 14 health outcomes.
- 15 C. Ultrasound guidance for needle procedures of the foot by podiatry or other specialists  
 16 is not medically necessary as most of these are standard office-based needle  
 17 procedures and not special procedures performed in a radiology suite.
- 18 D. Ultrasound guidance for trigger point or peripheral nerve block injections is not  
 19 medically necessary.
- 20 E. It is not expected that a non-physician practitioner (NPP) would perform procedures  
 21 utilizing 76942 as they are not qualified to “interpret” diagnostic ultrasounds. Note  
 22 that this code includes “imaging supervision and interpretation.” An interpretation of  
 23 the ultrasound guidance must be documented in the patient’s medical record in order  
 24 to separately bill this procedure code.
- 25 F. CPT 76942 is an imaging code that lets you visualize what you are injecting. It is  
 26 important to document why the imaging was necessary for this type of injection.  
 27 Typically, a plantar fascia injection does not require ultrasound guidance.
- 28 G. CPT code 76942 has both professional and technical components, meaning that a  
 29 separate radiology report (not part of the procedure note) is required to meet the  
 30 code’s radiology requirements. The specific documentation requirements for  
 31 ultrasound guidance include the following:
- 32 • A final, written report should be issued for inclusion in the patient’s medical  
 33 record.
  - 34 • Ultrasound guidance procedures also require permanently recorded images of the  
 35 site to be localized, as well as a documented description of the localization  
 36 process, either separately or within the report of the procedure for which the  
 37 guidance is utilized.
  - 38 • Use of ultrasound, without thorough evaluation of organ(s) or anatomic region,  
 39 image documentation, and final, written report, is not separately reportable.

40  
 41 ASH considers CPT Code 77002 - Fluoroscopic guidance for needle placement to be  
 42 medically necessary in limited situations where ultrasound guidance is not possible or

1 appropriate, despite improved safety profile (i.e., no radiation with ultrasound) and  
 2 medically necessary because palpation is not possible for accurate placement.

3  
 4 Additionally, ASH considers CPT Code 77002 - Fluoroscopic guidance for knee  
 5 injections only to be medically necessary and allowed if documentation supports that the  
 6 presentation of the patient’s affected knee on the day of the procedure makes needle  
 7 insertion problematic. No other imaging modality for the purpose of needle guidance and  
 8 placement will be covered.

9  
 10 Ultrasound or fluoroscopic guidance for needle placement is not indicated, reasonable or  
 11 medically necessary when used to penetrate an easily palpable joint.

12  
 13 CPT codes 76942 and 77002 describe radiologic guidance for needle placement by  
 14 different modalities. Only one unit of service for either of these codes is allowed at a  
 15 single patient encounter regardless of the number of needle placements performed. The  
 16 unit of service for these codes is the patient encounter, not number of lesions, number of  
 17 aspirations, number of biopsies, number of injections, or number of localizations.

CPT® Code	CPT® Code Description
76000	Fluoroscopy (separate procedure), up to 1 hour physician or other qualified health care professional time
76942	Ultrasonic guidance for needle placement (e.g., biopsy, aspiration, injection, localization device), imaging supervision and interpretation
77002	Fluoroscopic guidance for needle placement (e.g., biopsy, aspiration, injection, localization device) (List separately in addition to code for primary procedure)

19 **BACKGROUND**

20 **Fluoroscopy**

21  
 22 Fluoroscopy is a type of medical imaging that shows a continuous x-ray image on a  
 23 monitor. During a fluoroscopy procedure, an x-ray beam is passed through the body. The  
 24 image is transmitted to a monitor so the movement of a body part or of an instrument or  
 25 contrast agent (“x-ray dye”) through the body can be seen in detail. Fluoroscopy, as an  
 26 imaging tool, enables physicians to look at many body systems, including the skeletal,  
 27 digestive, urinary, respiratory, and reproductive systems. Fluoroscopy may be performed  
 28 to evaluate specific areas of the body, including the bones, muscles, and joints, as well as  
 29 solid organs, such as the heart, lung, or kidneys. Fluoroscopy is used in many types of  
 30 examinations and procedures, such as barium X-rays, cardiac catheterization,  
 31 arthrography (visualization of a joint or joints), lumbar puncture, placement of  
 32 intravenous (IV) catheters (hollow tubes inserted into veins or arteries), and biopsies.

1 Other uses of fluoroscopy include but are not limited to locating foreign bodies; image-  
 2 guided anesthetic injections into joints or the spine; and percutaneous vertebroplasty (a  
 3 minimally invasive procedure used to treat compression fractures of the vertebrae of the  
 4 spine.

5  
 6 Fluoroscopy carries some risks, as do other imaging procedures. The radiation dose the  
 7 patient receives varies depending on the individual procedure. Fluoroscopy can result in  
 8 relatively high radiation doses, especially for complex interventional procedures (such as  
 9 placing stents or other devices inside the body) which require fluoroscopy be  
 10 administered for a long period of time. Radiation-related risks associated with  
 11 fluoroscopy include:

- 12 • Radiation-induced injuries to the skin and underlying tissues (“burns”), which  
 13 occur shortly after the exposure
- 14 • Radiation-induced cancers, which may occur later in life

15  
 16 However, the likelihood that these effects will be experienced from a fluoroscopic  
 17 procedure is very small. Typically, the radiation risk is outweighed by the benefit to the  
 18 patient. To minimize the radiation risk, fluoroscopy should always be performed with the  
 19 lowest acceptable exposure for the shortest time necessary.

### 20 21 **Imaging Guidance for Needle Insertion**

22 The use of ultrasound to evaluate musculoskeletal structures has become increasing  
 23 popular over the recent years, particularly in the office setting. Ultrasound allows  
 24 physicians to visualize soft-tissue structures including muscle, tendons, ligaments,  
 25 arteries, and nerves, as well as identify any pathologic changes within these structures.  
 26 Ultrasound has also been used as an imaging guide for intra-articular or soft-tissue  
 27 injections to help improve accuracy. Using ultrasound guidance, a physician can directly  
 28 visualize an injection needle’s path and the immediate structures around it, thereby  
 29 minimizing risk of injury to adjacent nerves or blood vessels. There are two approaches  
 30 to ultrasound injections: in-plane (IP) and out-of-plane (OOP). With the IP or long-axis  
 31 approach, the needle is lined up with and parallel to the ultrasound transducer, enabling  
 32 the physician to see the length of the needle as it approaches the target site. The in-plane  
 33 technique is often preferred during ultrasound-guided procedures because the needle tip  
 34 and shaft are visualized throughout the entire procedure. With the OOP or short-axis  
 35 approach, the needle is placed perpendicular to the transducer and a transverse section of  
 36 the needle is visualized at the target site so that only the tip of the needle is visualized.  
 37 The out-of-plane approach is typically used for superficial injections with minimal  
 38 surrounding soft tissues.

39  
 40 Fluoroscopy has significantly contributed to the increase of image-guided interventions  
 41 across all areas of clinical medicine. While these procedures allow for the execution of  
 42 often complex internal manipulations through a small skin opening rather than a surgical

1 incision, they are not without risk, including the risks of ionizing radiation, as mentioned  
2 previously. When fluoroscopy is simply used for image guidance, other real time  
3 modalities should be considered that do not use ionizing radiation, like ultrasound. Thus,  
4 unlike fluoroscopy, ultrasound has no radiation exposure.

5  
6 While the studies show that image guidance during injection improves accuracy  
7 compared to blind injection and landmark-based injections for the shoulder, more high  
8 quality studies are required to determine whether the outcomes improve with imaging  
9 guidance. Based on outcomes in two moderate-sized shoulder injection studies,  
10 researchers concluded that patients who had undergone ultrasound-guided injections  
11 demonstrated greater improvement in both pain and shoulder function at 6 weeks than  
12 those who received landmark-guided injections. The hip joint is another large joint that  
13 can be technically challenging to inject due to its depth and the femoral neurovascular  
14 bundle that lies in close proximity. Fluoroscopy, which has been shown to be relatively  
15 safe and accurate, requires significant resource allocation and introduces the risk  
16 associated with exposure to ionizing radiation. Also, fluoroscopy does not visualize soft  
17 tissue or neurovascular structures. As a result, the ultrasound-guided technique for hip  
18 joint injections has been widely accepted as a safe and effective alternative by physicians.

## 19 **PRACTITIONER SCOPE AND TRAINING**

20 Practitioners should practice only in the areas in which they are competent based on their  
21 education, training and experience. Levels of education, experience, and proficiency may  
22 vary among individual practitioners. It is ethically and legally incumbent on a practitioner  
23 to determine where they have the knowledge and skills necessary to perform such  
24 services and whether the services are within their scope of practice.

25  
26  
27 It is best practice for the practitioner to appropriately render services to a member only if  
28 they are trained, equally skilled, and adequately competent to deliver a service compared  
29 to others trained to perform the same procedure. If the service would be most  
30 competently delivered by another health care practitioner who has more skill and  
31 training, it would be best practice to refer the member to the more expert practitioner.

32  
33 Best practice can be defined as a clinical, scientific, or professional technique, method, or  
34 process that is typically evidence-based and consensus driven and is recognized by a  
35 majority of professionals in a particular field as more effective at delivering a particular  
36 outcome than any other practice (Joint Commission International Accreditation Standards  
37 for Hospitals, 2020).

38  
39 Depending on the practitioner's scope of practice, training, and experience, a member's  
40 condition and/or symptoms during examination or the course of treatment may indicate  
41 the need for referral to another practitioner or even emergency care. In such cases it is  
42 prudent for the practitioner to refer the member for appropriate co-management (e.g., to

1 their primary care physician) or if immediate emergency care is warranted, to contact 911  
2 as appropriate. See the *Managing Medical Emergencies in a Health Care Facility (CPG*  
3 *159 – S)* clinical practice guideline for information.

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