

Specialty UM Pre-Authorization Program  
Program Code Listing  
Texas Medicare

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| A-1 Radiology |   |
|---------------|---|
| Code          | Code Description  |
| 70336         | Magnetic resonance (eg, proton) imaging, temporomandibular joint(s)   |
| 70450         | Computed tomography, head or brain; without contrast material   |
| 70460         | Computed tomography, head or brain; with contrast material(s)   |
| 70470         | Computed tomography, head or brain; without contrast material, followed by contrast material(s) and further sections  |
| 70480         | Computed tomography, orbit, sella, or posterior fossa or outer, middle, or inner ear; without contrast material   |
| 70481         | Computed tomography, orbit, sella, or posterior fossa or outer, middle, or inner ear; with contrast material(s)   |
| 70482         | Computed tomography, orbit, sella, or posterior fossa or outer, middle, or inner ear; without contrast material, followed by contrast material(s) and further sections  |
| 70486         | Computed tomography, maxillofacial area; without contrast material  |
| 70487         | Computed tomography, maxillofacial area; with contrast material(s)  |
| 70488         | Computed tomography, maxillofacial area; without contrast material, followed by contrast material(s) and further sections   |
| 70490         | Computed tomography, soft tissue neck; without contrast material  |
| 70491         | Computed tomography, soft tissue neck; with contrast material(s)  |
| 70492         | Computed tomography, soft tissue neck; without contrast material followed by contrast material(s) and further sections  |
| 70496         | Computed tomographic angiography, head, with contrast material(s), including noncontrast images, if performed, and image postprocessing   |
| 70498         | Computed tomographic angiography, neck, with contrast material(s), including noncontrast images, if performed, and image postprocessing   |
| 70540         | Magnetic resonance (eg, proton) imaging, orbit, face, and/or neck; without contrast material(s)   |
| 70542         | Magnetic resonance (eg, proton) imaging, orbit, face, and/or neck; with contrast material(s)  |
| 70543         | Magnetic resonance (eg, proton) imaging, orbit, face, and/or neck; without contrast material(s), followed by contrast material(s) and further sequences   |
| 70544         | Magnetic resonance angiography, head; without contrast material(s)  |
| 70545         | Magnetic resonance angiography, head; with contrast material(s)   |
| 70546         | Magnetic resonance angiography, head; without contrast material(s), followed by contrast material(s) and further sequences  |
| 70547         | Magnetic resonance angiography, neck; without contrast material(s)  |
| 70548         | Magnetic resonance angiography, neck; with contrast material(s)   |
| 70549         | Magnetic resonance angiography, neck; without contrast material(s), followed by contrast material(s) and further sequences  |
| 70551         | Magnetic resonance (eg, proton) imaging, brain (including brain stem); without contrast material  |
| 70552         | Magnetic resonance (eg, proton) imaging, brain (including brain stem); with contrast material(s)  |
| 70553         | Magnetic resonance (eg, proton) imaging, brain (including brain stem); without contrast material, followed by contrast material(s) and further sequences  |
| 70554         | Magnetic resonance imaging, brain, functional MRI; including test selection and administration of repetitive body part movement and/or visual stimulation, not requiring physician or psychologist administration |

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| 70555         | Magnetic resonance imaging, brain, functional MRI; requiring physician or psychologist administration of entire neurofunctional testing  |
| 71250         | Computed tomography, thorax; without contrast material   |
| 71260         | Computed tomography, thorax; with contrast material(s)   |
| 71270         | Computed tomography, thorax; without contrast material, followed by contrast material(s) and further sections  |
| 71275         | Computed tomographic angiography, chest (noncoronary), with contrast material(s), including noncontrast images, if performed, and image postprocessing   |
| 71550         | Magnetic resonance (eg, proton) imaging, chest (eg, for evaluation of hilar and mediastinal lymphadenopathy); without contrast material(s)   |
| 71551         | Magnetic resonance (eg, proton) imaging, chest (eg, for evaluation of hilar and mediastinal lymphadenopathy); with contrast material(s)  |
| 71552         | Magnetic resonance (eg, proton) imaging, chest (eg, for evaluation of hilar and mediastinal lymphadenopathy); without contrast material(s), followed by contrast material(s) and further sequences |
| 71555         | Magnetic resonance angiography, chest (excluding myocardium), with or without contrast material(s)   |
| 72125         | Computed tomography, cervical spine; without contrast material   |
| 72126         | Computed tomography, cervical spine; with contrast material  |
| 72127         | Computed tomography, cervical spine; without contrast material, followed by contrast material(s) and further sections  |
| 72128         | Computed tomography, thoracic spine; without contrast material   |
| 72129         | Computed tomography, thoracic spine; with contrast material  |
| 72130         | Computed tomography, thoracic spine; without contrast material, followed by contrast material(s) and further sections  |
| 72131         | Computed tomography, lumbar spine; without contrast material   |
| 72132         | Computed tomography, lumbar spine; with contrast material  |
| 72133         | Computed tomography, lumbar spine; without contrast material, followed by contrast material(s) and further sections  |
| 72141         | Magnetic resonance (eg, proton) imaging, spinal canal and contents, cervical; without contrast material  |
| 72142         | Magnetic resonance (eg, proton) imaging, spinal canal and contents, cervical; with contrast material(s)  |
| 72146         | Magnetic resonance (eg, proton) imaging, spinal canal and contents, thoracic; without contrast material  |
| 72147         | Magnetic resonance (eg, proton) imaging, spinal canal and contents, thoracic; with contrast material(s)  |
| 72148         | Magnetic resonance (eg, proton) imaging, spinal canal and contents, lumbar; without contrast material  |
| 72149         | Magnetic resonance (eg, proton) imaging, spinal canal and contents, lumbar; with contrast material(s)  |
| 72156         | Magnetic resonance (eg, proton) imaging, spinal canal and contents, without contrast material, followed by contrast material(s) and further sequences; cervical                                    |
| 72157         | Magnetic resonance (eg, proton) imaging, spinal canal and contents, without contrast material, followed by contrast material(s) and further sequences; thoracic                                    |
| 72158         | Magnetic resonance (eg, proton) imaging, spinal canal and contents, without contrast material, followed by contrast material(s) and further sequences; lumbar                                      |
| 72159         | Magnetic resonance angiography, spinal canal and contents, with or without contrast material(s)  |
| 72191         | Computed tomographic angiography, pelvis, with contrast material(s), including noncontrast images, if performed, and image postprocessing  |

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| 72192         | Computed tomography, pelvis; without contrast material   |
| 72193         | Computed tomography, pelvis; with contrast material(s)   |
| 72194         | Computed tomography, pelvis; without contrast material, followed by contrast material(s) and further sections  |
| 72195         | Magnetic resonance (eg, proton) imaging, pelvis; without contrast material(s)  |
| 72196         | Magnetic resonance (eg, proton) imaging, pelvis; with contrast material(s)   |
| 72197         | Magnetic resonance (eg, proton) imaging, pelvis; without contrast material(s), followed by contrast material(s) and further sequences                            |
| 72198         | Magnetic resonance angiography, pelvis, with or without contrast material(s)   |
| 73200         | Computed tomography, upper extremity; without contrast material  |
| 73201         | Computed tomography, upper extremity; with contrast material(s)  |
| 73202         | Computed tomography, upper extremity; without contrast material, followed by contrast material(s) and further sections   |
| 73206         | Computed tomographic angiography, upper extremity, with contrast material(s), including noncontrast images, if performed, and image postprocessing               |
| 73218         | Magnetic resonance (eg, proton) imaging, upper extremity, other than joint; without contrast material(s)   |
| 73219         | Magnetic resonance (eg, proton) imaging, upper extremity, other than joint; with contrast material(s)  |
| 73220         | Magnetic resonance (eg, proton) imaging, upper extremity, other than joint; without contrast material(s), followed by contrast material(s) and further sequences |
| 73221         | Magnetic resonance (eg, proton) imaging, any joint of upper extremity; without contrast material(s)  |
| 73222         | Magnetic resonance (eg, proton) imaging, any joint of upper extremity; with contrast material(s)   |
| 73223         | Magnetic resonance (eg, proton) imaging, any joint of upper extremity; without contrast material(s), followed by contrast material(s) and further sequences      |
| 73225         | Magnetic resonance angiography, upper extremity, with or without contrast material(s)  |
| 73700         | Computed tomography, lower extremity; without contrast material  |
| 73701         | Computed tomography, lower extremity; with contrast material(s)  |
| 73702         | Computed tomography, lower extremity; without contrast material, followed by contrast material(s) and further sections   |
| 73706         | Computed tomographic angiography, lower extremity, with contrast material(s), including noncontrast images, if performed, and image postprocessing               |
| 73718         | Magnetic resonance (eg, proton) imaging, lower extremity other than joint; without contrast material(s)  |
| 73719         | Magnetic resonance (eg, proton) imaging, lower extremity other than joint; with contrast material(s)   |
| 73720         | Magnetic resonance (eg, proton) imaging, lower extremity other than joint; without contrast material(s), followed by contrast material(s) and further sequences  |
| 73721         | Magnetic resonance (eg, proton) imaging, any joint of lower extremity; without contrast material   |
| 73722         | Magnetic resonance (eg, proton) imaging, any joint of lower extremity; with contrast material(s)   |
| 73723         | Magnetic resonance (eg, proton) imaging, any joint of lower extremity; without contrast material(s), followed by contrast material(s) and further sequences      |
| 73725         | Magnetic resonance angiography, lower extremity, with or without contrast material(s)  |
| 74150         | Computed tomography, abdomen; without contrast material  |
| 74160         | Computed tomography, abdomen; with contrast material(s)  |

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| 74170         | Computed tomography, abdomen; without contrast material, followed by contrast material(s) and further sections  |
| 74174         | Computed tomographic angiography, abdomen and pelvis, with contrast material(s), including noncontrast images, if performed, and image postprocessing   |
| 74175         | Computed tomographic angiography, abdomen, with contrast material(s), including noncontrast images, if performed, and image postprocessing  |
| 74176         | Computed tomography, abdomen and pelvis; without contrast material  |
| 74177         | Computed tomography, abdomen and pelvis; with contrast material(s)  |
| 74178         | Computed tomography, abdomen and pelvis; without contrast material in one or both body regions, followed by contrast material(s) and further sections in one or both body regions   |
| 74181         | Magnetic resonance (eg, proton) imaging, abdomen; without contrast material(s)  |
| 74182         | Magnetic resonance (eg, proton) imaging, abdomen; with contrast material(s)   |
| 74183         | Magnetic resonance (eg, proton) imaging, abdomen; without contrast material(s), followed by with contrast material(s) and further sequences   |
| 74185         | Magnetic resonance angiography, abdomen, with or without contrast material(s)   |
| 74261         | Computed tomographic (CT) colonography, diagnostic, including image postprocessing; without contrast material   |
| 74262         | Computed tomographic (CT) colonography, diagnostic, including image postprocessing; with contrast material(s) including non-contrast images, if performed   |
| 74263         | Computed tomographic (CT) colonography, screening, including image postprocessing   |
| 74712         | Magnetic resonance (eg, proton) imaging, fetal, including placental and maternal pelvic imaging when performed; single or first gestation   |
| 74713         | Magnetic resonance (eg, proton) imaging, fetal, including placental and maternal pelvic imaging when performed; each additional gestation (List separately in addition to code for primary procedure)   |
| 75557         | Cardiac magnetic resonance imaging for morphology and function without contrast material;   |
| 75559         | Cardiac magnetic resonance imaging for morphology and function without contrast material; with stress imaging   |
| 75561         | Cardiac magnetic resonance imaging for morphology and function without contrast material(s), followed by contrast material(s) and further sequences;  |
| 75563         | Cardiac magnetic resonance imaging for morphology and function without contrast material(s), followed by contrast material(s) and further sequences; with stress imaging  |
| 75565         | Cardiac magnetic resonance imaging for velocity flow mapping (List separately in addition to code for primary procedure)  |
| 75571         | Computed tomography, heart, without contrast material, with quantitative evaluation of coronary calcium   |
| 75572         | Computed tomography, heart, with contrast material, for evaluation of cardiac structure and morphology (including 3D image postprocessing, assessment of cardiac function, and evaluation of venous structures, if performed)   |
| 75573         | Computed tomography, heart, with contrast material, for evaluation of cardiac structure and morphology in the setting of congenital heart disease (including 3D image postprocessing, assessment of LV cardiac function, RV structure and function and evaluation of venous structures, if performed) |

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| Code          | Code Description   |
| 75574         | Computed tomographic angiography, heart, coronary arteries and bypass grafts (when present), with contrast material, including 3D image postprocessing (including evaluation of cardiac structure and morphology, assessment of cardiac function, and evaluation of venous structures, if performed) |
| 75635         | Computed tomographic angiography, abdominal aorta and bilateral iliofemoral lower extremity runoff, with contrast material(s), including noncontrast images, if performed, and image postprocessing  |
| 76376         | 3D rendering with interpretation and reporting of computed tomography, magnetic resonance imaging, ultrasound, or other tomographic modality with image postprocessing under concurrent supervision; not requiring image postprocessing on an independent workstation                                |
| 76376         | 3D rendering with interpretation and reporting of computed tomography, magnetic resonance imaging, ultrasound, or other tomographic modality with image postprocessing under concurrent supervision; not requiring image postprocessing on an independent workstation                                |
| 76377         | 3D rendering with interpretation and reporting of computed tomography, magnetic resonance imaging, ultrasound, or other tomographic modality with image postprocessing under concurrent supervision; requiring image postprocessing on an independent workstation                                    |
| 76380         | Computed tomography, limited or localized follow-up study  |
| 76390         | Magnetic resonance spectroscopy  |
| 76497         | Unlisted computed tomography procedure (eg, diagnostic, interventional)  |
| 76498         | Unlisted magnetic resonance procedure (eg, diagnostic, interventional)   |
| 76506         | Echoencephalography, real time with image documentation (gray scale) (for determination of ventricular size, delineation of cerebral contents, and detection of fluid masses or other intracranial abnormalities), including A-mode encephalography as secondary component where indicated           |
| 76536         | Ultrasound, soft tissues of head and neck (eg, thyroid, parathyroid, parotid), real time with image documentation  |
| 76604         | Ultrasound, chest (includes mediastinum), real time with image documentation   |
| 76641         | Ultrasound, breast, unilateral, real time with image documentation, including axilla when performed; complete  |
| 76642         | Ultrasound, breast, unilateral, real time with image documentation, including axilla when performed; limited   |
| 76700         | Ultrasound, abdominal, real time with image documentation; complete  |
| 76705         | Ultrasound, abdominal, real time with image documentation; limited (eg, single organ, quadrant, follow-up)   |
| 76706         | Ultrasound, abdominal aorta, real time with image documentation, screening study for abdominal aortic aneurysm (AAA)   |
| 76770         | Ultrasound, retroperitoneal (eg, renal, aorta, nodes), real time with image documentation; complete  |
| 76775         | Ultrasound, retroperitoneal (eg, renal, aorta, nodes), real time with image documentation; limited   |
| 76776         | Ultrasound, transplanted kidney, real time and duplex Doppler with image documentation   |
| 76800         | Ultrasound, spinal canal and contents  |
| 76801         | Ultrasound, pregnant uterus, real time with image documentation, fetal and maternal evaluation, first trimester (< 14 weeks 0 days), transabdominal approach; single or first gestation  |
| 76802         | Ultrasound, pregnant uterus, real time with image documentation, fetal and maternal evaluation, first trimester (< 14 weeks 0 days), transabdominal approach; each additional gestation (List separately in addition to code for primary procedure)  |
| 76805         | Ultrasound, pregnant uterus, real time with image documentation, fetal and maternal evaluation, after first trimester (> or = 14 weeks 0 days), transabdominal approach; single or first gestation   |

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| 76810         | Ultrasound, pregnant uterus, real time with image documentation, fetal and maternal evaluation, after first trimester (> or = 14 weeks 0 days), transabdominal approach; each additional gestation (List separately in addition to code for primary procedure)  |
| 76811         | Ultrasound, pregnant uterus, real time with image documentation, fetal and maternal evaluation plus detailed fetal anatomic examination, transabdominal approach; single or first gestation   |
| 76812         | Ultrasound, pregnant uterus, real time with image documentation, fetal and maternal evaluation plus detailed fetal anatomic examination, transabdominal approach; each additional gestation (List separately in addition to code for primary procedure)   |
| 76813         | Ultrasound, pregnant uterus, real time with image documentation, first trimester fetal nuchal translucency measurement, transabdominal or transvaginal approach; single or first gestation  |
| 76814         | Ultrasound, pregnant uterus, real time with image documentation, first trimester fetal nuchal translucency measurement, transabdominal or transvaginal approach; each additional gestation (List separately in addition to code for primary procedure)  |
| 76815         | Ultrasound, pregnant uterus, real time with image documentation, limited (eg, fetal heart beat, placental location, fetal position and/or qualitative amniotic fluid volume), 1 or more fetuses   |
| 76816         | Ultrasound, pregnant uterus, real time with image documentation, follow-up (eg, re-evaluation of fetal size by measuring standard growth parameters and amniotic fluid volume, re-evaluation of organ system(s) suspected or confirmed to be abnormal on a previous scan), transabdominal approach, per fetus |
| 76817         | Ultrasound, pregnant uterus, real time with image documentation, transvaginal   |
| 76818         | Fetal biophysical profile; with non-stress testing  |
| 76819         | Fetal biophysical profile; without non-stress testing   |
| 76820         | Doppler velocimetry, fetal; umbilical artery  |
| 76821         | Doppler velocimetry, fetal; middle cerebral artery  |
| 76825         | Echocardiography, fetal, cardiovascular system, real time with image documentation (2D), with or without M-mode recording;  |
| 76826         | Echocardiography, fetal, cardiovascular system, real time with image documentation (2D), with or without M-mode recording; follow-up or repeat study  |
| 76827         | Doppler echocardiography, fetal, pulsed wave and/or continuous wave with spectral display; complete   |
| 76828         | Doppler echocardiography, fetal, pulsed wave and/or continuous wave with spectral display; follow-up or repeat study  |
| 76830         | Ultrasound, transvaginal  |
| 76831         | Saline infusion sonohysterography (SIS), including color flow Doppler, when performed   |
| 76856         | Ultrasound, pelvic (nonobstetric), real time with image documentation; complete   |
| 76857         | Ultrasound, pelvic (nonobstetric), real time with image documentation; limited or follow-up (eg, for follicles)   |
| 76870         | Ultrasound, scrotum and contents  |
| 76872         | Ultrasound, transrectal;  |
| 76881         | Ultrasound, extremity, nonvascular, real-time with image documentation; complete  |
| 76882         | Ultrasound, extremity, nonvascular, real-time with image documentation; limited, anatomic specific  |
| 76885         | Ultrasound, infant hips, real time with imaging documentation; dynamic (requiring physician or other qualified health care professional manipulation)   |
| 76886         | Ultrasound, infant hips, real time with imaging documentation; limited, static (not requiring physician or other qualified health care professional manipulation)   |
| 76970         | Ultrasound study follow-up (specify)  |



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| 76975         | Gastrointestinal endoscopic ultrasound, supervision and interpretation  |
| 76999         | Unlisted ultrasound procedure (eg, diagnostic, interventional)  |
| 77021         | Magnetic resonance guidance for needle placement (eg, for biopsy, needle aspiration, injection, or placement of localization device) radiological supervision and interpretation            |
| 77022         | Magnetic resonance guidance for, and monitoring of, parenchymal tissue ablation   |
| 77058         | Magnetic resonance imaging, breast, without and/or with contrast material(s); unilateral  |
| 77059         | Magnetic resonance imaging, breast, without and/or with contrast material(s); bilateral   |
| 77078         | Computed tomography, bone mineral density study, 1 or more sites, axial skeleton (eg, hips, pelvis, spine)  |
| 77084         | Magnetic resonance (eg, proton) imaging, bone marrow blood supply   |
| 78012         | Thyroid uptake, single or multiple quantitative measurement(s) (including stimulation, suppression, or discharge, when performed)   |
| 78013         | Thyroid imaging (including vascular flow, when performed);  |
| 78014         | Thyroid imaging (including vascular flow, when performed); with single or multiple uptake(s) quantitative measurement(s) (including stimulation, suppression, or discharge, when performed) |
| 78015         | Thyroid carcinoma metastases imaging; limited area (eg, neck and chest only)  |
| 78016         | Thyroid carcinoma metastases imaging; with additional studies (eg, urinary recovery)  |
| 78018         | Thyroid carcinoma metastases imaging; whole body  |
| 78020         | Thyroid carcinoma metastases uptake (List separately in addition to code for primary procedure)   |
| 78070         | Parathyroid planar imaging (including subtraction, when performed);   |
| 78071         | Parathyroid planar imaging (including subtraction, when performed); with tomographic (SPECT)  |
| 78072         | Parathyroid planar imaging (including subtraction, when performed); with tomographic (SPECT), and concurrently acquired computed tomography (CT) for anatomical localization                |
| 78075         | Adrenal imaging, cortex and/or medulla  |
| 78102         | Bone marrow imaging; limited area   |
| 78103         | Bone marrow imaging; multiple areas   |
| 78104         | Bone marrow imaging; whole body   |
| 78140         | Labeled red cell sequestration, differential organ/tissue (eg, splenic and/or hepatic)  |
| 78185         | Spleen imaging only, with or without vascular flow  |
| 78195         | Lymphatics and lymph nodes imaging  |
| 78201         | Liver imaging; static only  |
| 78202         | Liver imaging; with vascular flow   |
| 78205         | Liver imaging (SPECT);  |
| 78206         | Liver imaging (SPECT); with vascular flow   |
| 78215         | Liver and spleen imaging; static only   |
| 78216         | Liver and spleen imaging; with vascular flow  |
| 78226         | Hepatobiliary system imaging, including gallbladder when present;   |
| 78227         | Hepatobiliary system imaging, including gallbladder when present; with pharmacologic intervention, including quantitative measurement(s) when performed                                     |
| 78230         | Salivary gland imaging;   |
| 78231         | Salivary gland imaging; with serial images  |
| 78232         | Salivary gland function study   |
| 78258         | Esophageal motility   |

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| Code          | Code Description  |
| 78261         | Gastric mucosa imaging  |
| 78262         | Gastroesophageal reflux study   |
| 78264         | Gastric emptying imaging study (eg, solid, liquid, or both);  |
| 78265         | Gastric emptying imaging study (eg, solid, liquid, or both); with small bowel transit   |
| 78266         | Gastric emptying imaging study (eg, solid, liquid, or both); with small bowel and colon transit, multiple days  |
| 78278         | Acute gastrointestinal blood loss imaging   |
| 78290         | Intestine imaging (eg, ectopic gastric mucosa, Meckel's localization, volvulus)   |
| 78291         | Peritoneal-venous shunt patency test (eg, for LeVeen, Denver shunt)   |
| 78300         | Bone and/or joint imaging; limited area   |
| 78305         | Bone and/or joint imaging; multiple areas   |
| 78306         | Bone and/or joint imaging; whole body   |
| 78315         | Bone and/or joint imaging; 3 phase study  |
| 78320         | Bone and/or joint imaging; tomographic (SPECT)  |
| 78414         | Determination of central c-v hemodynamics (non-imaging) (eg, ejection fraction with probe technique) with or without pharmacologic intervention or exercise, single or multiple determinations                      |
| 78428         | Cardiac shunt detection   |
| 78445         | Non-cardiac vascular flow imaging (ie, angiography, venography)   |
| 78457         | Venous thrombosis imaging, venogram; unilateral   |
| 78458         | Venous thrombosis imaging, venogram; bilateral  |
| 78459         | Myocardial imaging, positron emission tomography (PET), metabolic evaluation  |
| 78466         | Myocardial imaging, infarct avid, planar; qualitative or quantitative   |
| 78468         | Myocardial imaging, infarct avid, planar; with ejection fraction by first pass technique  |
| 78469         | Myocardial imaging, infarct avid, planar; tomographic SPECT with or without quantification  |
| 78472         | Cardiac blood pool imaging, gated equilibrium; planar, single study at rest or stress (exercise and/or pharmacologic), wall motion study plus ejection fraction, with or without additional quantitative processing |
| 78473         | Cardiac blood pool imaging, gated equilibrium; multiple studies, wall motion study plus ejection fraction, at rest and stress (exercise and/or pharmacologic), with or without additional quantification            |
| 78481         | Cardiac blood pool imaging (planar), first pass technique; single study, at rest or with stress (exercise and/or pharmacologic), wall motion study plus ejection fraction, with or without quantification           |
| 78483         | Cardiac blood pool imaging (planar), first pass technique; multiple studies, at rest and with stress (exercise and/or pharmacologic), wall motion study plus ejection fraction, with or without quantification      |
| 78491         | Myocardial imaging, positron emission tomography (PET), perfusion; single study at rest or stress   |
| 78492         | Myocardial imaging, positron emission tomography (PET), perfusion; multiple studies at rest and/or stress   |
| 78494         | Cardiac blood pool imaging, gated equilibrium, SPECT, at rest, wall motion study plus ejection fraction, with or without quantitative processing  |
| 78496         | Cardiac blood pool imaging, gated equilibrium, single study, at rest, with right ventricular ejection fraction by first pass technique (List separately in addition to code for primary procedure)                  |
| 78499         | Unlisted cardiovascular procedure, diagnostic nuclear medicine  |
| 78579         | Pulmonary ventilation imaging (eg, aerosol or gas)  |
| 78580         | Pulmonary perfusion imaging (eg, particulate)   |
| 78582         | Pulmonary ventilation (eg, aerosol or gas) and perfusion imaging  |



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| 78585         | Pulmonary perfusion imaging, particulate, with ventilation; rebreathing and washout, with or without single breath  |
| 78597         | Quantitative differential pulmonary perfusion, including imaging when performed   |
| 78598         | Quantitative differential pulmonary perfusion and ventilation (eg, aerosol or gas), including imaging when performed  |
| 78600         | Brain imaging, less than 4 static views;  |
| 78601         | Brain imaging, less than 4 static views; with vascular flow   |
| 78605         | Brain imaging, minimum 4 static views;  |
| 78606         | Brain imaging, minimum 4 static views; with vascular flow   |
| 78607         | Brain imaging, tomographic (SPECT)  |
| 78608         | Brain imaging, positron emission tomography (PET); metabolic evaluation   |
| 78609         | Brain imaging, positron emission tomography (PET); perfusion evaluation   |
| 78610         | Brain imaging, vascular flow only   |
| 78630         | Cerebrospinal fluid flow, imaging (not including introduction of material); cisternography  |
| 78635         | Cerebrospinal fluid flow, imaging (not including introduction of material); ventriculography  |
| 78645         | Cerebrospinal fluid flow, imaging (not including introduction of material); shunt evaluation  |
| 78647         | Cerebrospinal fluid flow, imaging (not including introduction of material); tomographic (SPECT)   |
| 78650         | Cerebrospinal fluid leakage detection and localization  |
| 78660         | Radiopharmaceutical dacryocystography   |
| 78699         | Unlisted nervous system procedure, diagnostic nuclear medicine  |
| 78700         | Kidney imaging morphology;  |
| 78701         | Kidney imaging morphology; with vascular flow   |
| 78707         | Kidney imaging morphology; with vascular flow and function, single study without pharmacological intervention   |
| 78708         | Kidney imaging morphology; with vascular flow and function, single study, with pharmacological intervention (eg, angiotensin converting enzyme inhibitor and/or diuretic)                 |
| 78709         | Kidney imaging morphology; with vascular flow and function, multiple studies, with and without pharmacological intervention (eg, angiotensin converting enzyme inhibitor and/or diuretic) |
| 78710         | Kidney imaging morphology; tomographic (SPECT)  |
| 78725         | Kidney function study, non-imaging radioisotopic study  |
| 78730         | Urinary bladder residual study (List separately in addition to code for primary procedure)  |
| 78740         | Ureteral reflux study (radiopharmaceutical voiding cystogram)   |
| 78761         | Testicular imaging with vascular flow   |
| 78800         | Radiopharmaceutical localization of tumor or distribution of radiopharmaceutical agent(s); limited area   |
| 78801         | Radiopharmaceutical localization of tumor or distribution of radiopharmaceutical agent(s); multiple areas   |
| 78802         | Radiopharmaceutical localization of tumor or distribution of radiopharmaceutical agent(s); whole body, single day imaging   |
| 78803         | Radiopharmaceutical localization of tumor or distribution of radiopharmaceutical agent(s); tomographic (SPECT)  |
| 78804         | Radiopharmaceutical localization of tumor or distribution of radiopharmaceutical agent(s); whole body, requiring 2 or more days imaging   |
| 78805         | Radiopharmaceutical localization of inflammatory process; limited area  |

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| Code          | Code Description   |
| 78806         | Radiopharmaceutical localization of inflammatory process; whole body   |
| 78807         | Radiopharmaceutical localization of inflammatory process; tomographic (SPECT)  |
| 78811         | Positron emission tomography (PET) imaging; limited area (eg, chest, head/neck)  |
| 78812         | Positron emission tomography (PET) imaging; skull base to mid-thigh  |
| 78813         | Positron emission tomography (PET) imaging; whole body   |
| 78814         | Positron emission tomography (PET) with concurrently acquired computed tomography (CT) for attenuation correction and anatomical localization imaging; limited area (eg, chest, head/neck)   |
| 78815         | Positron emission tomography (PET) with concurrently acquired computed tomography (CT) for attenuation correction and anatomical localization imaging; skull base to mid-thigh   |
| 78816         | Positron emission tomography (PET) with concurrently acquired computed tomography (CT) for attenuation correction and anatomical localization imaging; whole body  |
| 93880         | Duplex scan of extracranial arteries; complete bilateral study   |
| 93882         | Duplex scan of extracranial arteries; unilateral or limited study  |
| 93886         | Transcranial Doppler study of the intracranial arteries; complete study  |
| 93888         | Transcranial Doppler study of the intracranial arteries; limited study   |
| 93890         | Transcranial Doppler study of the intracranial arteries; vasoreactivity study  |
| 93892         | Transcranial Doppler study of the intracranial arteries; emboli detection without intravenous microbubble injection  |
| 93893         | Transcranial Doppler study of the intracranial arteries; emboli detection with intravenous microbubble injection   |
| 93922         | Limited bilateral noninvasive physiologic studies of upper or lower extremity arteries, (eg, for lower extremity: ankle/brachial indices at distal posterior tibial and anterior tibial/dorsalis pedis arteries plus bidirectional, Doppler waveform recording and analysis at 1-2 levels, or ankle/brachial indices at distal posterior tibial and anterior tibial/dorsalis pedis arteries plus volume plethysmography at 1-2 levels, or ankle/brachial indices at distal posterior tibial and anterior tibial/dorsalis pedis arteries with, transcutaneous oxygen tension measurement at 1-2 levels)   |
| 93923         | Complete bilateral noninvasive physiologic studies of upper or lower extremity arteries, 3 or more levels (eg, for lower extremity: ankle/brachial indices at distal posterior tibial and anterior tibial/dorsalis pedis arteries plus segmental blood pressure measurements with bidirectional Doppler waveform recording and analysis, at 3 or more levels, or ankle/brachial indices at distal posterior tibial and anterior tibial/dorsalis pedis arteries plus segmental volume plethysmography at 3 or more levels, or ankle/brachial indices at distal posterior tibial and anterior tibial/dorsalis pedis arteries plus segmental transcutaneous oxygen tension measurements at 3 or more levels), or single level study with provocative functional maneuvers (eg, measurements with postural provocative tests, or measurements with reactive hyperemia) |
| 93924         | Noninvasive physiologic studies of lower extremity arteries, at rest and following treadmill stress testing, (ie, bidirectional Doppler waveform or volume plethysmography recording and analysis at rest with ankle/brachial indices immediately after and at timed intervals following performance of a standardized protocol on a motorized treadmill plus recording of time of onset of claudication or other symptoms, maximal walking time, and time to recovery) complete bilateral study   |
| 93925         | Duplex scan of lower extremity arteries or arterial bypass grafts; complete bilateral study  |
| 93926         | Duplex scan of lower extremity arteries or arterial bypass grafts; unilateral or limited study   |
| 93930         | Duplex scan of upper extremity arteries or arterial bypass grafts; complete bilateral study  |
| 93931         | Duplex scan of upper extremity arteries or arterial bypass grafts; unilateral or limited study   |

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| 93965         | Noninvasive physiologic studies of extremity veins, complete bilateral study (eg, Doppler waveform analysis with responses to compression and other maneuvers, phleborheography, impedance plethysmography)   |
| 93970         | Duplex scan of extremity veins including responses to compression and other maneuvers; complete bilateral study   |
| 93971         | Duplex scan of extremity veins including responses to compression and other maneuvers; unilateral or limited study  |
| 93975         | Duplex scan of arterial inflow and venous outflow of abdominal, pelvic, scrotal contents and/or retroperitoneal organs; complete study  |
| 93976         | Duplex scan of arterial inflow and venous outflow of abdominal, pelvic, scrotal contents and/or retroperitoneal organs; limited study   |
| 93978         | Duplex scan of aorta, inferior vena cava, iliac vasculature, or bypass grafts; complete study   |
| 93979         | Duplex scan of aorta, inferior vena cava, iliac vasculature, or bypass grafts; unilateral or limited study  |
| 93980         | Duplex scan of arterial inflow and venous outflow of penile vessels; complete study   |
| 93981         | Duplex scan of arterial inflow and venous outflow of penile vessels; follow-up or limited study   |
| 93990         | Duplex scan of hemodialysis access (including arterial inflow, body of access and venous outflow)   |
| 93998         | Unlisted noninvasive vascular diagnostic study  |
| 0042T         | Cerebral perfusion analysis using computed tomography with contrast administration, including post-processing of parametric maps with determination of cerebral blood flow, cerebral blood volume, and mean transit time  |
| 0159T         | Computer-aided detection, including computer algorithm analysis of MRI image data for lesion detection/characterization, pharmacokinetic analysis, with further physician review for interpretation, breast MRI (List separately in addition to code for primary procedure) |
| 0398T         | Magnetic resonance image guided high intensity focused ultrasound (MRgFUS), stereotactic ablation lesion, intracranial for movement disorder including stereotactic navigation and frame placement when performed   |
| C8900         | Magnetic resonance angiography with contrast, abdomen   |
| C8901         | Magnetic resonance angiography without contrast, abdomen  |
| C8902         | Magnetic resonance angiography without contrast followed by with contrast, abdomen  |
| C8903         | Magnetic resonance imaging with contrast, breast; unilateral  |
| C8904         | Magnetic resonance imaging without contrast, breast; unilateral   |
| C8905         | Magnetic resonance imaging without contrast followed by with contrast, breast; unilateral   |
| C8906         | Magnetic resonance imaging with contrast, breast; bilateral   |
| C8907         | Magnetic resonance imaging without contrast, breast; bilateral  |
| C8908         | Magnetic resonance imaging without contrast followed by with contrast, breast; bilateral  |
| C8909         | Magnetic resonance angiography with contrast, chest (excluding myocardium)  |
| C8910         | Magnetic resonance angiography without contrast, chest (excluding myocardium)   |
| C8911         | Magnetic resonance angiography without contrast followed by with contrast, chest (excluding myocardium)   |
| C8912         | Magnetic resonance angiography with contrast, lower extremity   |
| C8913         | Magnetic resonance angiography without contrast, lower extremity  |
| C8914         | Magnetic resonance angiography without contrast followed by with contrast, lower extremity  |
| C8918         | Magnetic resonance angiography with contrast, pelvis  |
| C8919         | Magnetic resonance angiography without contrast, pelvis   |
| C8920         | Magnetic resonance angiography without contrast followed by with contrast, pelvis   |

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| Code          | Code Description  |
| C8931         | Magnetic resonance angiography with contrast, spinal canal and contents   |
| C8932         | Magnetic resonance angiography without contrast, spinal canal and contents  |
| C8933         | Magnetic resonance angiography without contrast followed by with contrast, spinal canal and contents  |
| C8934         | Magnetic resonance angiography with contrast, upper extremity   |
| C8935         | Magnetic resonance angiography without contrast, upper extremity  |
| C8936         | Magnetic resonance angiography without contrast followed by with contrast, upper extremity  |
| G0219         | Pet imaging whole body; melanoma for non-covered indications  |
| G0235         | Pet imaging, any site, not otherwise specified  |
| G0252         | Pet imaging, full and partial-ring PET scanners only, for initial diagnosis of breast cancer and/or surgical planning for breast cancer (e.g., initial staging of axillary lymph nodes) |
| G0297         | Low dose ct scan (ldct) for lung cancer screening   |
| G0389         | Ultrasound b-scan and/or real time with image documentation; for abdominal aortic aneurysm (aaa) screening  |
| S8037         | Magnetic resonance cholangiopancreatography (mrCP)  |
| S8042         | Magnetic resonance imaging (mri), low-field   |
| S8080         | Scintimammography (radioimmunosintigraphy of the breast), unilateral, including supply of radiopharmaceutical   |
| S8085         | Fluorine-18 fluorodeoxyglucose (F-18 fdg) imaging using dual-head coincidence detection system (non-dedicated PET scan)   |
| S8092         | Electron beam computed tomography (also known as ultrafast ct, cine ct)   |

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| Code           | Code Description  |
| 75557          | Cardiac magnetic resonance imaging for morphology and function without contrast material;   |
| 75559          | Cardiac magnetic resonance imaging for morphology and function without contrast material; with stress imaging   |
| 75561          | Cardiac magnetic resonance imaging for morphology and function without contrast material(s), followed by contrast material(s) and further sequences;  |
| 75563          | Cardiac magnetic resonance imaging for morphology and function without contrast material(s), followed by contrast material(s) and further sequences; with stress imaging  |
| 75571          | Computed tomography, heart, without contrast material, with quantitative evaluation of coronary calcium   |
| 75572          | Computed tomography, heart, with contrast material, for evaluation of cardiac structure and morphology (including 3D image postprocessing, assessment of cardiac function, and evaluation of venous structures, if performed)   |
| 75573          | Computed tomography, heart, with contrast material, for evaluation of cardiac structure and morphology in the setting of congenital heart disease (including 3D image postprocessing, assessment of LV cardiac function, RV structure and function and evaluation of venous structures, if performed)   |
| 75574          | Computed tomographic angiography, heart, coronary arteries and bypass grafts (when present), with contrast material, including 3D image postprocessing (including evaluation of cardiac structure and morphology, assessment of cardiac function, and evaluation of venous structures, if performed)  |
| 78451          | Myocardial perfusion imaging, tomographic (SPECT) (including attenuation correction, qualitative or quantitative wall motion, ejection fraction by first pass or gated technique, additional quantification, when performed); single study, at rest or stress (exercise or pharmacologic)   |
| 78452          | Myocardial perfusion imaging, tomographic (SPECT) (including attenuation correction, qualitative or quantitative wall motion, ejection fraction by first pass or gated technique, additional quantification, when performed); multiple studies, at rest and/or stress (exercise or pharmacologic) and/or redistribution and/or rest reinjection |
| 78453          | Myocardial perfusion imaging, planar (including qualitative or quantitative wall motion, ejection fraction by first pass or gated technique, additional quantification, when performed); single study, at rest or stress (exercise or pharmacologic)  |
| 78454          | Myocardial perfusion imaging, planar (including qualitative or quantitative wall motion, ejection fraction by first pass or gated technique, additional quantification, when performed); multiple studies, at rest and/or stress (exercise or pharmacologic) and/or redistribution and/or rest reinjection                                      |
| 78459          | Myocardial imaging, positron emission tomography (PET), metabolic evaluation  |
| 78491          | Myocardial imaging, positron emission tomography (PET), perfusion; single study at rest or stress   |
| 78492          | Myocardial imaging, positron emission tomography (PET), perfusion; multiple studies at rest and/or stress   |
| 93303          | Transthoracic echocardiography for congenital cardiac anomalies; complete   |
| 93304          | Transthoracic echocardiography for congenital cardiac anomalies; follow-up or limited study   |
| 93306          | Echocardiography, transthoracic, real-time with image documentation (2D), includes M-mode recording, when performed, complete, with spectral Doppler echocardiography, and with color flow Doppler echocardiography   |
| 93307          | Echocardiography, transthoracic, real-time with image documentation (2D), includes M-mode recording, when performed, complete, without spectral or color Doppler echocardiography   |
| 93308          | Echocardiography, transthoracic, real-time with image documentation (2D), includes M-mode recording, when performed, follow-up or limited study   |
| 93312          | Echocardiography, transesophageal, real-time with image documentation (2D) (with or without M-mode recording); including probe placement, image acquisition, interpretation and report  |
| 93313          | Echocardiography, transesophageal, real-time with image documentation (2D) (with or without M-mode recording); placement of transesophageal probe only  |

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| Code           | Code Description  |
| 93314          | Echocardiography, transesophageal, real-time with image documentation (2D) (with or without M-mode recording); image acquisition, interpretation and report only  |
| 93315          | Transesophageal echocardiography for congenital cardiac anomalies; including probe placement, image acquisition, interpretation and report  |
| 93316          | Transesophageal echocardiography for congenital cardiac anomalies; placement of transesophageal probe only  |
| 93317          | Transesophageal echocardiography for congenital cardiac anomalies; image acquisition, interpretation and report only  |
| 93318          | Echocardiography, transesophageal (TEE) for monitoring purposes, including probe placement, real time 2-dimensional image acquisition and interpretation leading to ongoing (continuous) assessment of (dynamically changing) cardiac pumping function and to therapeutic measures on an immediate time basis   |
| 93350          | Echocardiography, transthoracic, real-time with image documentation (2D), includes M-mode recording, when performed, during rest and cardiovascular stress test using treadmill, bicycle exercise and/or pharmacologically induced stress, with interpretation and report;  |
| 93451          | Right heart catheterization including measurement(s) of oxygen saturation and cardiac output, when performed  |
| 93452          | Left heart catheterization including intraprocedural injection(s) for left ventriculography, imaging supervision and interpretation, when performed   |
| 93453          | Combined right and left heart catheterization including intraprocedural injection(s) for left ventriculography, imaging supervision and interpretation, when performed  |
| 93454          | Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation;   |
| 93455          | Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous grafts) including intraprocedural injection(s) for bypass graft angiography  |
| 93456          | Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with right heart catheterization  |
| 93457          | Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous grafts) including intraprocedural injection(s) for bypass graft angiography and right heart catheterization  |
| 93458          | Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with left heart catheterization including intraprocedural injection(s) for left ventriculography, when performed  |
| 93459          | Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with left heart catheterization including intraprocedural injection(s) for left ventriculography, when performed, catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous grafts) with bypass graft angiography |
| 93460          | Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with right and left heart catheterization including intraprocedural injection(s) for left ventriculography, when performed  |



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| Code           | Code Description  |
| 93461          | Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with right and left heart catheterization including intraprocedural injection(s) for left ventriculography, when performed, catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous grafts) with bypass graft angiography         |
| 93530          | Right heart catheterization, for congenital cardiac anomalies   |
| 93531          | Combined right heart catheterization and retrograde left heart catheterization, for congenital cardiac anomalies  |
| 93532          | Combined right heart catheterization and transseptal left heart catheterization through intact septum with or without retrograde left heart catheterization, for congenital cardiac anomalies   |
| 93533          | Combined right heart catheterization and transseptal left heart catheterization through existing septal opening, with or without retrograde left heart catheterization, for congenital cardiac anomalies  |
| 0399T          | Myocardial strain imaging (quantitative assessment of myocardial mechanics using image-based analysis of local myocardial dynamics) (List separately in addition to code for primary procedure)   |
| C8921          | Transthoracic echocardiography with contrast, or without contrast followed by with contrast, for congenital cardiac anomalies; complete   |
| C8922          | Transthoracic echocardiography with contrast, or without contrast followed by with contrast, for congenital cardiac anomalies; follow-up or limited study   |
| C8923          | Transthoracic echocardiography with contrast, or without contrast followed by with contrast, real-time with image documentation (2d), includes m-mode recording, when performed, complete, without spectral or color doppler echocardiography   |
| C8924          | Transthoracic echocardiography with contrast, or without contrast followed by with contrast, real-time with image documentation (2d), includes m-mode recording, when performed, follow-up or limited study   |
| C8928          | Transthoracic echocardiography with contrast, or without contrast followed by with contrast, real-time with image documentation (2d), includes m-mode recording, when performed, during rest and cardiovascular stress test using treadmill, bicycle exercise and/or pharmacologically induced stress, with interpretation and report   |
| C8929          | Transthoracic echocardiography with contrast, or without contrast followed by with contrast, real-time with image documentation (2d), includes m-mode recording, when performed, complete, with spectral doppler echocardiography, and with color flow doppler echocardiography   |
| C8930          | Transthoracic echocardiography, with contrast, or without contrast followed by with contrast, real-time with image documentation (2d), includes m-mode recording, when performed, during rest and cardiovascular stress test using treadmill, bicycle exercise and/or pharmacologically induced stress, with interpretation and report; including performance of continuous electrocardiographic monitoring, with physician supervision |

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| A-3 Specialty Therapy PT-OT |  |
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| Code                        | Code Description   |
| 29105                       | Application of long arm splint (shoulder to hand)  |
| 29125                       | Application of short arm splint (forearm to hand); static  |
| 29126                       | Application of short arm splint (forearm to hand); dynamic   |
| 29130                       | Application of finger splint; static   |
| 29131                       | Application of finger splint; dynamic  |
| 29200                       | Strapping; thorax  |
| 29240                       | Strapping; shoulder (eg, Velpeau)  |
| 29260                       | Strapping; elbow or wrist  |
| 29280                       | Strapping; hand or finger  |
| 29520                       | Strapping; hip   |
| 29530                       | Strapping; knee  |
| 29540                       | Strapping; ankle and/or foot   |
| 29550                       | Strapping; toes  |
| 90911                       | Biofeedback training, perineal muscles, anorectal or urethral sphincter, including EMG and/or manometry  |
| 95831                       | Muscle testing, manual (separate procedure) with report; extremity (excluding hand) or trunk   |
| 95832                       | Muscle testing, manual (separate procedure) with report; hand, with or without comparison with normal side   |
| 95833                       | Muscle testing, manual (separate procedure) with report; total evaluation of body, excluding hands   |
| 95834                       | Muscle testing, manual (separate procedure) with report; total evaluation of body, including hands   |
| 95851                       | Range of motion measurements and report (separate procedure); each extremity (excluding hand) or each trunk section (spine)  |
| 95852                       | Range of motion measurements and report (separate procedure); hand, with or without comparison with normal side  |
| 96160                       | Administration of patient-focused health risk assessment instrument (eg, health hazard appraisal) with scoring and documentation, per standardized instrument                                |
| 96161                       | Administration of caregiver-focused health risk assessment instrument (eg, depression inventory) for the benefit of the patient, with scoring and documentation, per standardized instrument |
| 97010                       | Application of a modality to 1 or more areas; hot or cold packs  |
| 97012                       | Application of a modality to 1 or more areas; traction, mechanical   |
| 97014                       | Application of a modality to 1 or more areas; electrical stimulation (unattended)  |
| 97016                       | Application of a modality to 1 or more areas; vasopneumatic devices  |
| 97018                       | Application of a modality to 1 or more areas; paraffin bath  |
| 97022                       | Application of a modality to 1 or more areas; whirlpool  |
| 97024                       | Application of a modality to 1 or more areas; diathermy (eg, microwave)  |
| 97026                       | Application of a modality to 1 or more areas; infrared   |
| 97028                       | Application of a modality to 1 or more areas; ultraviolet  |
| 97032                       | Application of a modality to 1 or more areas; electrical stimulation (manual), each 15 minutes   |
| 97033                       | Application of a modality to 1 or more areas; iontophoresis, each 15 minutes   |
| 97034                       | Application of a modality to 1 or more areas; contrast baths, each 15 minutes  |
| 97035                       | Application of a modality to 1 or more areas; ultrasound, each 15 minutes  |
| 97036                       | Application of a modality to 1 or more areas; Hubbard tank, each 15 minutes  |
| 97039                       | Unlisted modality (specify type and time if constant attendance)   |

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| 97110 | Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility  |
| 97112 | Therapeutic procedure, 1 or more areas, each 15 minutes; neuromuscular reeducation of movement, balance, coordination, kinesthetic sense, posture, and/or proprioception for sitting and/or standing activities  |
| 97113 | Therapeutic procedure, 1 or more areas, each 15 minutes; aquatic therapy with therapeutic exercises  |
| 97116 | Therapeutic procedure, 1 or more areas, each 15 minutes; gait training (includes stair climbing)   |
| 97124 | Therapeutic procedure, 1 or more areas, each 15 minutes; massage, including effleurage, petrissage and/or tapotement (stroking, compression, percussion)   |
| 97139 | Unlisted therapeutic procedure (specify)   |
| 97140 | Manual therapy techniques (eg, mobilization/ manipulation, manual lymphatic drainage, manual traction), 1 or more regions, each 15 minutes   |
| 97150 | Therapeutic procedure(s), group (2 or more individuals)  |
| 97161 | Physical therapy evaluation: low complexity, requiring these components: A history with no personal factors and/or comorbidities that impact the plan of care; An examination of body system(s) using standardized tests and measures addressing 1-2 elements from any of the following: body structures and functions, activity limitations, and/or participation restrictions; A clinical presentation with stable and/or uncomplicated characteristics; and Clinical decision making of low complexity using standardized patient assessment instrument and/or measurable assessment of functional outcome. Typically, 20 minutes are spent face-to-face with the patient and/or family.  |
| 97162 | Physical therapy evaluation: moderate complexity, requiring these components: A history of present problem with 1-2 personal factors and/or comorbidities that impact the plan of care; An examination of body systems using standardized tests and measures in addressing a total of 3 or more elements from any of the following: body structures and functions, activity limitations, and/or participation restrictions; An evolving clinical presentation with changing characteristics; and Clinical decision making of moderate complexity using standardized patient assessment instrument and/or measurable assessment of functional outcome. Typically, 30 minutes are spent face-to-face with the patient and/or family.   |
| 97163 | Physical therapy evaluation: high complexity, requiring these components: A history of present problem with 3 or more personal factors and/or comorbidities that impact the plan of care; An examination of body systems using standardized tests and measures addressing a total of 4 or more elements from any of the following: body structures and functions, activity limitations, and/or participation restrictions; A clinical presentation with unstable and unpredictable characteristics; and Clinical decision making of high complexity using standardized patient assessment instrument and/or measurable assessment of functional outcome. Typically, 45 minutes are spent face-to-face with the patient and/or family.  |
| 97164 | Re-evaluation of physical therapy established plan of care, requiring these components: An examination including a review of history and use of standardized tests and measures is required; and Revised plan of care using a standardized patient assessment instrument and/or measurable assessment of functional outcome Typically, 20 minutes are spent face-to-face with the patient and/or family.   |
| 97165 | Occupational therapy evaluation, low complexity, requiring these components: An occupational profile and medical and therapy history, which includes a brief history including review of medical and/or therapy records relating to the presenting problem; An assessment(s) that identifies 1-3 performance deficits (ie, relating to physical, cognitive, or psychosocial skills) that result in activity limitations and/or participation restrictions; and Clinical decision making of low complexity, which includes an analysis of the occupational profile, analysis of data from problem-focused assessment(s), and consideration of a limited number of treatment options. Patient presents with no comorbidities that affect occupational performance. Modification of tasks or assistance (eg, physical or verbal) with assessment(s) is not necessary to enable completion of evaluation component. Typically, 30 minutes are spent face-to-face with the patient and/or family. |

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| 97166 | Occupational therapy evaluation, moderate complexity, requiring these components: An occupational profile and medical and therapy history, which includes an expanded review of medical and/or therapy records and additional review of physical, cognitive, or psychosocial history related to current functional performance; An assessment(s) that identifies 3-5 performance deficits (ie, relating to physical, cognitive, or psychosocial skills) that result in activity limitations and/or participation restrictions; and Clinical decision making of moderate analytic complexity, which includes an analysis of the occupational profile, analysis of data from detailed assessment(s), and consideration of several treatment options. Patient may present with comorbidities that affect occupational performance. Minimal to moderate modification of tasks or assistance (eg, physical or verbal) with assessment(s) is necessary to enable patient to complete evaluation component. Typically, 45 minutes are spent face-to-face with the patient and/or family. |
| 97167 | Occupational therapy evaluation, high complexity, requiring these components: An occupational profile and medical and therapy history, which includes review of medical and/or therapy records and extensive additional review of physical, cognitive, or psychosocial history related to current functional performance; An assessment(s) that identifies 5 or more performance deficits (ie, relating to physical, cognitive, or psychosocial skills) that result in activity limitations and/or participation restrictions; and Clinical decision making of high analytic complexity, which includes an analysis of the patient profile, analysis of data from comprehensive assessment(s), and consideration of multiple treatment options. Patient presents with comorbidities that affect occupational performance. Significant modification of tasks or assistance (eg, physical or verbal) with assessment(s) is necessary to enable patient to complete evaluation component. Typically, 60 minutes are spent face-to-face with the patient and/or family.               |
| 97168 | Re-evaluation of occupational therapy established plan of care, requiring these components: An assessment of changes in patient functional or medical status with revised plan of care; An update to the initial occupational profile to reflect changes in condition or environment that affect future interventions and/or goals; and A revised plan of care. A formal reevaluation is performed when there is a documented change in functional status or a significant change to the plan of care is required. Typically, 30 minutes are spent face-to-face with the patient and/or family.   |
| 97530 | Therapeutic activities, direct (one-on-one) patient contact (use of dynamic activities to improve functional performance), each 15 minutes  |
| 97532 | Development of cognitive skills to improve attention, memory, problem solving (includes compensatory training), direct (one-on-one) patient contact, each 15 minutes  |
| 97533 | Sensory integrative techniques to enhance sensory processing and promote adaptive responses to environmental demands, direct (one-on-one) patient contact, each 15 minutes  |
| 97535 | Self-care/home management training (eg, activities of daily living (ADL) and compensatory training, meal preparation, safety procedures, and instructions in use of assistive technology devices/adaptive equipment) direct one-on-one contact, each 15 minutes   |
| 97537 | Community/work reintegration training (eg, shopping, transportation, money management, avocational activities and/or work environment/modification analysis, work task analysis, use of assistive technology device/adaptive equipment), direct one-on-one contact, each 15 minutes   |
| 97542 | Wheelchair management (eg, assessment, fitting, training), each 15 minutes  |
| 97545 | Work hardening/conditioning; initial 2 hours  |
| 97546 | Work hardening/conditioning; each additional hour (List separately in addition to code for primary procedure)   |
| 97750 | Physical performance test or measurement (eg, musculoskeletal, functional capacity), with written report, each 15 minutes   |
| 97755 | Assistive technology assessment (eg, to restore, augment or compensate for existing function, optimize functional tasks and/or maximize environmental accessibility), direct one-on-one contact, with written report, each 15 minutes   |

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| 97760 | Orthotic(s) management and training (including assessment and fitting when not otherwise reported), upper extremity(s), lower extremity(s) and/or trunk, each 15 minutes   |
| 97761 | Prosthetic training, upper and/or lower extremity(s), each 15 minutes  |
| 97762 | Checkout for orthotic/prosthetic use, established patient, each 15 minutes   |
| 97799 | Unlisted physical medicine/rehabilitation service or procedure   |
| G0151 | Services performed by a qualified physical therapist in the home health or hospice setting, each 15 minutes  |
| G0152 | Services performed by a qualified occupational therapist in the home health or hospice setting, each 15 minutes  |
| G0157 | Services performed by a qualified physical therapist assistant in the home health or hospice setting, each 15 minutes  |
| G0158 | Services performed by a qualified occupational therapist assistant in the home health or hospice setting, each 15 minutes  |
| G0159 | Services performed by a qualified physical therapist, in the home health setting, in the establishment or delivery of a safe and effective physical therapy maintenance program, each 15 minutes   |
| G0160 | Services performed by a qualified occupational therapist, in the home health setting, in the establishment or delivery of a safe and effective occupational therapy maintenance program, each 15 minutes   |
| G0281 | Electrical stimulation, (unattended), to one or more areas, for chronic stage iii and stage iv pressure ulcers, arterial ulcers, diabetic ulcers, and venous stasis ulcers not demonstrating measurable signs of healing after 30 days of conventional care, as part of a therapy plan of care |
| G0282 | Electrical stimulation, (unattended), to one or more areas, for wound care other than described in G0281   |
| G0283 | Electrical stimulation (unattended), to one or more areas for indication(s) other than wound care, as part of a therapy plan of care   |

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| A-3 Specialty Therapy - Speech |  |
|--------------------------------|--|
| Code                           | Code Description   |
| 31575                          | Laryngoscopy, flexible fiberoptic; diagnostic  |
| 31579                          | Laryngoscopy, flexible or rigid telescopic, with stroboscopy   |
| 92507                          | Treatment of speech, language, voice, communication, and/or auditory processing disorder; individual   |
| 92508                          | Treatment of speech, language, voice, communication, and/or auditory processing disorder; group, 2 or more individuals   |
| 92511                          | Nasopharyngoscopy with endoscope (separate procedure)  |
| 92520                          | Laryngeal function studies (ie, aerodynamic testing and acoustic testing)  |
| 92521                          | Evaluation of speech fluency (eg, stuttering, cluttering)  |
| 92522                          | Evaluation of speech sound production (eg, articulation, phonological process, apraxia, dysarthria);   |
| 92523                          | Evaluation of speech sound production (eg, articulation, phonological process, apraxia, dysarthria); with evaluation of language comprehension and expression (eg, receptive and expressive language)  |
| 92524                          | Behavioral and qualitative analysis of voice and resonance   |
| 92526                          | Treatment of swallowing dysfunction and/or oral function for feeding   |
| 92597                          | Evaluation for use and/or fitting of voice prosthetic device to supplement oral speech   |
| 92605                          | Evaluation for prescription of non-speech-generating augmentative and alternative communication device, face-to-face with the patient; first hour  |
| 92606                          | Therapeutic service(s) for the use of non-speech-generating device, including programming and modification   |
| 92607                          | Evaluation for prescription for speech-generating augmentative and alternative communication device, face-to-face with the patient; first hour   |
| 92608                          | Evaluation for prescription for speech-generating augmentative and alternative communication device, face-to-face with the patient; each additional 30 minutes (List separately in addition to code for primary procedure)   |
| 92609                          | Therapeutic services for the use of speech-generating device, including programming and modification   |
| 92610                          | Evaluation of oral and pharyngeal swallowing function  |
| 92611                          | Motion fluoroscopic evaluation of swallowing function by cine or video recording   |
| 92612                          | Flexible endoscopic evaluation of swallowing by cine or video recording;   |
| 92613                          | Flexible endoscopic evaluation of swallowing by cine or video recording; interpretation and report only  |
| 92614                          | Flexible endoscopic evaluation, laryngeal sensory testing by cine or video recording;  |
| 92615                          | Flexible endoscopic evaluation, laryngeal sensory testing by cine or video recording; interpretation and report only   |
| 92616                          | Flexible endoscopic evaluation of swallowing and laryngeal sensory testing by cine or video recording;   |
| 92617                          | Flexible endoscopic evaluation of swallowing and laryngeal sensory testing by cine or video recording; interpretation and report only  |
| 92618                          | Evaluation for prescription of non-speech-generating augmentative and alternative communication device, face-to-face with the patient; each additional 30 minutes (List separately in addition to code for primary procedure)  |
| 96105*                         | Assessment of aphasia (includes assessment of expressive and receptive speech and language function, language comprehension, speech production ability, reading, spelling, writing, eg, by Boston Diagnostic Aphasia Examination) with interpretation and report, per hour |
| 96110                          | Developmental screening (eg, developmental milestone survey, speech and language delay screen), with scoring and documentation, per standardized instrument  |
| 96111                          | Developmental testing, (includes assessment of motor, language, social, adaptive, and/or cognitive functioning by standardized developmental instruments) with interpretation and report   |



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| A-3 Specialty Therapy - Speech |  |
|--------------------------------|--|
| Code                           | Code Description   |
| 96125*                         | Standardized cognitive performance testing (eg, Ross Information Processing Assessment) per hour of a qualified health care professional's time, both face-to-face time administering tests to the patient and time interpreting these test results and preparing the report |
| 97532                          | Development of cognitive skills to improve attention, memory, problem solving (includes compensatory training), direct (one-on-one) patient contact, each 15 minutes   |

\* For non-behavioral health diagnosis only

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| A-3 Specialty Therapy - Chiro |   |
|-------------------------------|---|
| Code                          | Code Description  |
| 95831                         | Muscle testing, manual (separate procedure) with report; extremity (excluding hand) or trunk  |
| 95832                         | Muscle testing, manual (separate procedure) with report; hand, with or without comparison with normal side  |
| 95833                         | Muscle testing, manual (separate procedure) with report; total evaluation of body, excluding hands  |
| 95834                         | Muscle testing, manual (separate procedure) with report; total evaluation of body, including hands  |
| 95851                         | Range of motion measurements and report (separate procedure); each extremity (excluding hand) or each trunk section (spine)   |
| 95852                         | Range of motion measurements and report (separate procedure); hand, with or without comparison with normal side   |
| 97010                         | Application of a modality to 1 or more areas; hot or cold packs   |
| 97012                         | Application of a modality to 1 or more areas; traction, mechanical  |
| 97014                         | Application of a modality to 1 or more areas; electrical stimulation (unattended)   |
| 97016                         | Application of a modality to 1 or more areas; vasopneumatic devices   |
| 97018                         | Application of a modality to 1 or more areas; paraffin bath   |
| 97022                         | Application of a modality to 1 or more areas; whirlpool   |
| 97024                         | Application of a modality to 1 or more areas; diathermy (eg, microwave)   |
| 97026                         | Application of a modality to 1 or more areas; infrared  |
| 97028                         | Application of a modality to 1 or more areas; ultraviolet   |
| 97032                         | Application of a modality to 1 or more areas; electrical stimulation (manual), each 15 minutes  |
| 97033                         | Application of a modality to 1 or more areas; iontophoresis, each 15 minutes  |
| 97034                         | Application of a modality to 1 or more areas; contrast baths, each 15 minutes   |
| 97035                         | Application of a modality to 1 or more areas; ultrasound, each 15 minutes   |
| 97036                         | Application of a modality to 1 or more areas; Hubbard tank, each 15 minutes   |
| 97039                         | Unlisted modality (specify type and time if constant attendance)  |
| 97110                         | Therapeutic procedure, 1 or more areas, each 15 minutes; therapeutic exercises to develop strength and endurance, range of motion and flexibility   |
| 97112                         | Therapeutic procedure, 1 or more areas, each 15 minutes; neuromuscular reeducation of movement, balance, coordination, kinesthetic sense, posture, and/or proprioception for sitting and/or standing activities |
| 97116                         | Therapeutic procedure, 1 or more areas, each 15 minutes; gait training (includes stair climbing)  |
| 97140                         | Manual therapy techniques (eg, mobilization/ manipulation, manual lymphatic drainage, manual traction), 1 or more regions, each 15 minutes  |
| 97530                         | Therapeutic activities, direct (one-on-one) patient contact (use of dynamic activities to improve functional performance), each 15 minutes  |
| 97760                         | Orthotic(s) management and training (including assessment and fitting when not otherwise reported), upper extremity(s), lower extremity(s) and/or trunk, each 15 minutes  |
| 97761                         | Prosthetic training, upper and/or lower extremity(s), each 15 minutes   |
| 97762                         | Checkout for orthotic/prosthetic use, established patient, each 15 minutes  |
| 98942                         | Chiropractic manipulative treatment (CMT); spinal, 5 regions  |
| 98943                         | Chiropractic manipulative treatment (CMT); extraspinal, 1 or more regions   |
| 97750                         | Physical performance test or measurement (eg, musculoskeletal, functional capacity), with written report, each 15 minutes   |
| 98940                         | Chiropractic manipulative treatment (CMT); spinal, 1-2 regions  |
| 98941                         | Chiropractic manipulative treatment (CMT); spinal, 3-4 regions  |

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**A-3 Specialty Therapy - Chiro**

| <b>Code</b> | <b>Code Description</b>  |
|-------------|--|
| G0283       | Electrical stimulation (unattended), to one or more areas for indication(s) other than wound care, as part of a therapy plan of care |

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| A-4 Musculoskeletal - Joint |  |
|-----------------------------|--|
| Code                        | Code Description   |
| 23000                       | Removal of subdeltoid calcareous deposits, open  |
| 23020                       | Capsular contracture release (eg, Sever type procedure)  |
| 23120                       | Claviclectomy; partial   |
| 23130                       | Acromioplasty or acromionectomy, partial, with or without coracoacromial ligament release  |
| 23410                       | Repair of ruptured musculotendinous cuff (eg, rotator cuff) open; acute  |
| 23412                       | Repair of ruptured musculotendinous cuff (eg, rotator cuff) open; chronic  |
| 23415                       | Coracoacromial ligament release, with or without acromioplasty   |
| 23420                       | Reconstruction of complete shoulder (rotator) cuff avulsion, chronic (includes acromioplasty)  |
| 23430                       | Tenodesis of long tendon of biceps   |
| 23440                       | Resection or transplantation of long tendon of biceps  |
| 23450                       | Capsulorrhaphy, anterior; Putti-Platt procedure or Magnuson type operation   |
| 23455                       | Capsulorrhaphy, anterior; with labral repair (eg, Bankart procedure)   |
| 23460                       | Capsulorrhaphy, anterior, any type; with bone block  |
| 23462                       | Capsulorrhaphy, anterior, any type; with coracoid process transfer   |
| 23465                       | Capsulorrhaphy, glenohumeral joint, posterior, with or without bone block  |
| 23466                       | Capsulorrhaphy, glenohumeral joint, any type multi-directional instability   |
| 23470                       | Arthroplasty, glenohumeral joint; hemiarthroplasty   |
| 23472                       | Arthroplasty, glenohumeral joint; total shoulder (glenoid and proximal humeral replacement (eg, total shoulder))                               |
| 23473                       | Revision of total shoulder arthroplasty, including allograft when performed; humeral or glenoid component                                      |
| 23474                       | Revision of total shoulder arthroplasty, including allograft when performed; humeral and glenoid component                                     |
| 27125                       | Hemiarthroplasty, hip, partial (eg, femoral stem prosthesis, bipolar arthroplasty)   |
| 27130                       | Arthroplasty, acetabular and proximal femoral prosthetic replacement (total hip arthroplasty), with or without autograft or allograft          |
| 27132                       | Conversion of previous hip surgery to total hip arthroplasty, with or without autograft or allograft   |
| 27134                       | Revision of total hip arthroplasty; both components, with or without autograft or allograft  |
| 27137                       | Revision of total hip arthroplasty; acetabular component only, with or without autograft or allograft  |
| 27138                       | Revision of total hip arthroplasty; femoral component only, with or without allograft  |
| 27332                       | Arthrotomy, with excision of semilunar cartilage (meniscectomy) knee; medial OR lateral  |
| 27333                       | Arthrotomy, with excision of semilunar cartilage (meniscectomy) knee; medial AND lateral   |
| 27334                       | Arthrotomy, with synovectomy, knee; anterior OR posterior  |
| 27335                       | Arthrotomy, with synovectomy, knee; anterior AND posterior including popliteal area  |
| 27403                       | Arthrotomy with meniscus repair, knee  |
| 27412                       | Autologous chondrocyte implantation, knee  |
| 27415                       | Osteochondral allograft, knee, open  |
| 27416                       | Osteochondral autograft(s), knee, open (eg, mosaicplasty) (includes harvesting of autograft[s])  |
| 27418                       | Anterior tibial tubercleplasty (eg, Maquet type procedure)   |
| 27420                       | Reconstruction of dislocating patella; (eg, Hauser type procedure)   |
| 27422                       | Reconstruction of dislocating patella; with extensor realignment and/or muscle advancement or release (eg, Campbell, Goldwaite type procedure) |
| 27424                       | Reconstruction of dislocating patella; with patellectomy   |
| 27425                       | Lateral retinacular release, open  |

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| Code                        | Code Description   |
| 27427                       | Ligamentous reconstruction (augmentation), knee; extra-articular   |
| 27428                       | Ligamentous reconstruction (augmentation), knee; intra-articular (open)  |
| 27429                       | Ligamentous reconstruction (augmentation), knee; intra-articular (open) and extra-articular  |
| 27430                       | Quadricepsplasty (eg, Bennett or Thompson type)  |
| 27438                       | Arthroplasty, patella; with prosthesis   |
| 27440                       | Arthroplasty, knee, tibial plateau;  |
| 27441                       | Arthroplasty, knee, tibial plateau; with debridement and partial synovectomy   |
| 27442                       | Arthroplasty, femoral condyles or tibial plateau(s), knee;   |
| 27443                       | Arthroplasty, femoral condyles or tibial plateau(s), knee; with debridement and partial synovectomy  |
| 27446                       | Arthroplasty, knee, condyle and plateau; medial OR lateral compartment   |
| 27447                       | Arthroplasty, knee, condyle and plateau; medial AND lateral compartments with or without patella resurfacing (total knee arthroplasty)         |
| 27486                       | Revision of total knee arthroplasty, with or without allograft; 1 component  |
| 27487                       | Revision of total knee arthroplasty, with or without allograft; femoral and entire tibial component  |
| 29805                       | Arthroscopy, shoulder, diagnostic, with or without synovial biopsy (separate procedure)  |
| 29806                       | Arthroscopy, shoulder, surgical; capsulorrhaphy  |
| 29807                       | Arthroscopy, shoulder, surgical; repair of SLAP lesion   |
| 29819                       | Arthroscopy, shoulder, surgical; with removal of loose body or foreign body  |
| 29820                       | Arthroscopy, shoulder, surgical; synovectomy, partial  |
| 29821                       | Arthroscopy, shoulder, surgical; synovectomy, complete   |
| 29822                       | Arthroscopy, shoulder, surgical; debridement, limited  |
| 29823                       | Arthroscopy, shoulder, surgical; debridement, extensive  |
| 29824                       | Arthroscopy, shoulder, surgical; distal claviclectomy including distal articular surface (Mumford procedure)                                   |
| 29825                       | Arthroscopy, shoulder, surgical; with lysis and resection of adhesions, with or without manipulation   |
| 29827                       | Arthroscopy, shoulder, surgical; with rotator cuff repair  |
| 29828                       | Arthroscopy, shoulder, surgical; biceps tenodesis  |
| 29860                       | Arthroscopy, hip, diagnostic with or without synovial biopsy (separate procedure)  |
| 29861                       | Arthroscopy, hip, surgical; with removal of loose body or foreign body   |
| 29862                       | Arthroscopy, hip, surgical; with debridement/shaving of articular cartilage (chondroplasty), abrasion arthroplasty, and/or resection of labrum |
| 29863                       | Arthroscopy, hip, surgical; with synovectomy   |
| 29866                       | Arthroscopy, knee, surgical; osteochondral autograft(s) (eg, mosaicplasty) (includes harvesting of the autograft[s])                           |
| 29867                       | Arthroscopy, knee, surgical; osteochondral allograft (eg, mosaicplasty)  |
| 29868                       | Arthroscopy, knee, surgical; meniscal transplantation (includes arthrotomy for meniscal insertion), medial or lateral                          |
| 29870                       | Arthroscopy, knee, diagnostic, with or without synovial biopsy (separate procedure)  |
| 29871                       | Arthroscopy, knee, surgical; for infection, lavage and drainage  |
| 29873                       | Arthroscopy, knee, surgical; with lateral release  |
| 29874                       | Arthroscopy, knee, surgical; for removal of loose body or foreign body (eg, osteochondritis dissecans fragmentation, chondral fragmentation)   |
| 29875                       | Arthroscopy, knee, surgical; synovectomy, limited (eg, plica or shelf resection) (separate procedure)  |
| 29876                       | Arthroscopy, knee, surgical; synovectomy, major, 2 or more compartments (eg, medial or lateral)  |

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| A-4 Musculoskeletal - Joint |   |
|-----------------------------|---|
| Code                        | Code Description  |
| 29877                       | Arthroscopy, knee, surgical; debridement/shaving of articular cartilage (chondroplasty)   |
| 29879                       | Arthroscopy, knee, surgical; abrasion arthroplasty (includes chondroplasty where necessary) or multiple drilling or microfracture   |
| 29880                       | Arthroscopy, knee, surgical; with meniscectomy (medial AND lateral, including any meniscal shaving) including debridement/shaving of articular cartilage (chondroplasty), same or separate compartment(s), when performed |
| 29881                       | Arthroscopy, knee, surgical; with meniscectomy (medial OR lateral, including any meniscal shaving) including debridement/shaving of articular cartilage (chondroplasty), same or separate compartment(s), when performed  |
| 29882                       | Arthroscopy, knee, surgical; with meniscus repair (medial OR lateral)   |
| 29883                       | Arthroscopy, knee, surgical; with meniscus repair (medial AND lateral)  |
| 29884                       | Arthroscopy, knee, surgical; with lysis of adhesions, with or without manipulation (separate procedure)   |
| 29885                       | Arthroscopy, knee, surgical; drilling for osteochondritis dissecans with bone grafting, with or without internal fixation (including debridement of base of lesion)   |
| 29886                       | Arthroscopy, knee, surgical; drilling for intact osteochondritis dissecans lesion   |
| 29887                       | Arthroscopy, knee, surgical; drilling for intact osteochondritis dissecans lesion with internal fixation  |
| 29888                       | Arthroscopically aided anterior cruciate ligament repair/augmentation or reconstruction   |
| 29889                       | Arthroscopically aided posterior cruciate ligament repair/augmentation or reconstruction  |
| 29914                       | Arthroscopy, hip, surgical; with femoroplasty (ie, treatment of cam lesion)   |
| 29915                       | Arthroscopy, hip, surgical; with acetabuloplasty (ie, treatment of pincer lesion)   |
| 29916                       | Arthroscopy, hip, surgical; with labral repair  |



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| A-4 Musculoskeletal - Spine |  |
|-----------------------------|--|
| Code                        | Code Description   |
| 20930                       | Allograft, morselized, or placement of osteopromotive material, for spine surgery only (List separately in addition to code for primary procedure)   |
| 20931                       | Allograft, structural, for spine surgery only (List separately in addition to code for primary procedure)  |
| 20936                       | Autograft for spine surgery only (includes harvesting the graft); local (eg, ribs, spinous process, or laminae fragments) obtained from same incision (List separately in addition to code for primary procedure)  |
| 20937                       | Autograft for spine surgery only (includes harvesting the graft); morselized (through separate skin or fascial incision) (List separately in addition to code for primary procedure)   |
| 20938                       | Autograft for spine surgery only (includes harvesting the graft); structural, bicortical or tricortical (through separate skin or fascial incision) (List separately in addition to code for primary procedure)  |
| 20974                       | Electrical stimulation to aid bone healing; noninvasive (non-operative)  |
| 20975                       | Electrical stimulation to aid bone healing; noninvasive (operative)  |
| 22510                       | Percutaneous vertebroplasty (bone biopsy included when performed), 1 vertebral body, unilateral or bilateral injection, inclusive of all imaging guidance; cervicothoracic   |
| 22511                       | Percutaneous vertebroplasty (bone biopsy included when performed), 1 vertebral body, unilateral or bilateral injection, inclusive of all imaging guidance; lumbosacral   |
| 22512                       | Percutaneous vertebroplasty (bone biopsy included when performed), 1 vertebral body, unilateral or bilateral injection, inclusive of all imaging guidance; each additional cervicothoracic or lumbosacral vertebral body (List separately in addition to code for primary procedure)   |
| 22513                       | Percutaneous vertebral augmentation, including cavity creation (fracture reduction and bone biopsy included when performed) using mechanical device (eg, kyphoplasty), 1 vertebral body, unilateral or bilateral cannulation, inclusive of all imaging guidance; thoracic  |
| 22514                       | Percutaneous vertebral augmentation, including cavity creation (fracture reduction and bone biopsy included when performed) using mechanical device (eg, kyphoplasty), 1 vertebral body, unilateral or bilateral cannulation, inclusive of all imaging guidance; lumbar  |
| 22515                       | Percutaneous vertebral augmentation, including cavity creation (fracture reduction and bone biopsy included when performed) using mechanical device (eg, kyphoplasty), 1 vertebral body, unilateral or bilateral cannulation, inclusive of all imaging guidance; each additional thoracic or lumbar vertebral body (List separately in addition to code for primary procedure) |
| 22533                       | Arthrodesis, lateral extracavitary technique, including minimal discectomy to prepare interspace (other than for decompression); lumbar  |
| 22534                       | Arthrodesis, lateral extracavitary technique, including minimal discectomy to prepare interspace (other than for decompression); thoracic or lumbar, each additional vertebral segment (List separately in addition to code for primary procedure)   |
| 22551                       | Arthrodesis, anterior interbody, including disc space preparation, discectomy, osteophytectomy and decompression of spinal cord and/or nerve roots; cervical below C2  |
| 22552                       | Arthrodesis, anterior interbody, including disc space preparation, discectomy, osteophytectomy and decompression of spinal cord and/or nerve roots; cervical below C2, each additional interspace (List separately in addition to code for separate procedure)   |
| 22554                       | Arthrodesis, anterior interbody technique, including minimal discectomy to prepare interspace (other than for decompression); cervical below C2  |
| 22558                       | Arthrodesis, anterior interbody technique, including minimal discectomy to prepare interspace (other than for decompression); lumbar   |
| 22585                       | Arthrodesis, anterior interbody technique, including minimal discectomy to prepare interspace (other than for decompression); each additional interspace (List separately in addition to code for primary procedure)   |
| 22600                       | Arthrodesis, posterior or posterolateral technique, single level; cervical below C2 segment  |

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|-----------------------------|--|
| Code                        | Code Description   |
| 22612                       | Arthrodesis, posterior or posterolateral technique, single level; lumbar (with lateral transverse technique, when performed)   |
| 22614                       | Arthrodesis, posterior or posterolateral technique, single level; each additional vertebral segment (List separately in addition to code for primary procedure)  |
| 22630                       | Arthrodesis, posterior interbody technique, including laminectomy and/or discectomy to prepare interspace (other than for decompression), single interspace; lumbar  |
| 22632                       | Arthrodesis, posterior interbody technique, including laminectomy and/or discectomy to prepare interspace (other than for decompression), single interspace; each additional interspace (List separately in addition to code for primary procedure)  |
| 22633                       | Arthrodesis, combined posterior or posterolateral technique with posterior interbody technique including laminectomy and/or discectomy sufficient to prepare interspace (other than for decompression), single interspace and segment; lumbar  |
| 22634                       | Arthrodesis, combined posterior or posterolateral technique with posterior interbody technique including laminectomy and/or discectomy sufficient to prepare interspace (other than for decompression), single interspace and segment; each additional interspace and segment (List separately in addition to code for primary procedure)  |
| 22841                       | Internal spinal fixation by wiring of spinous processes (List separately in addition to code for primary procedure)  |
| 22842                       | Posterior segmental instrumentation (eg, pedicle fixation, dual rods with multiple hooks and sublaminar wires); 3 to 6 vertebral segments (List separately in addition to code for primary procedure)  |
| 22843                       | Posterior segmental instrumentation (eg, pedicle fixation, dual rods with multiple hooks and sublaminar wires); 7 to 12 vertebral segments (List separately in addition to code for primary procedure)   |
| 22844                       | Posterior segmental instrumentation (eg, pedicle fixation, dual rods with multiple hooks and sublaminar wires); 13 or more vertebral segments (List separately in addition to code for primary procedure)  |
| 22845                       | Anterior instrumentation; 2 to 3 vertebral segments (List separately in addition to code for primary procedure)  |
| 22846                       | Anterior instrumentation; 4 to 7 vertebral segments (List separately in addition to code for primary procedure)  |
| 22847                       | Anterior instrumentation; 8 or more vertebral segments (List separately in addition to code for primary procedure)   |
| 22848                       | Pelvic fixation (attachment of caudal end of instrumentation to pelvic bony structures) other than sacrum (List separately in addition to code for primary procedure)  |
| 22853                       | Insertion of interbody biomechanical device(s) (eg, synthetic cage, mesh) with integral anterior instrumentation for device anchoring (eg, screws, flanges), when conjunction with interbody arthrodesis, each interspace (List performed, to intervertebral disc space in conjunction with interbody arthrodesis, each interspace (List separately in addition to code for primary procedure)       |
| 22854                       | Insertion of intervertebral biomechanical device(s) (eg, synthetic cage, mesh) with integral anterior instrumentation for device anchoring (eg, screws, flanges), when performed, to vertebral corpectomy(ies) (vertebral body resection, partial or complete) defect, in conjunction with interbody arthrodesis, each contiguous defect (List separately in addition to code for primary procedure) |
| 22856                       | Total disc arthroplasty (artificial disc), anterior approach, including discectomy with end plate preparation (includes osteophytectomy for nerve root or spinal cord decompression and microdissection); single interspace, cervical  |
| 22857                       | Total disc arthroplasty (artificial disc), anterior approach, including discectomy to prepare interspace (other than for decompression), single interspace, lumbar   |

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| A-4 Musculoskeletal - Spine |  |
|-----------------------------|--|
| Code                        | Code Description   |
| 22858                       | Total disc arthroplasty (artificial disc), anterior approach, including discectomy with end plate preparation (includes osteophyctomy for nerve root or spinal cord decompression and microdissection); second level, cervical (List separately in addition to code for primary procedure) |
| 22859                       | Insertion of intervertebral biomechanical device(s) (eg, synthetic cage, mesh, methylmethacrylate) to intervertebral disc space or vertebral body defect without interbody arthrodesis, each contiguous effect (List separately in addition to code for primary procedure)                 |
| 22861                       | Revision including replacement of total disc arthroplasty (artificial disc), anterior approach, single interspace; cervical  |
| 22862                       | Revision including replacement of total disc arthroplasty (artificial disc), anterior approach, single interspace; lumbar  |
| 22867                       | Insertion of interlaminar/interspinous process stabilization/distraction device, without fusion, including image guidance when performed, with open decompression, lumbar; single level  |
| 22868                       | Insertion of interlaminar/interspinous process stabilization/distraction device, without fusion, including image guidance when performed, with open decompression, lumbar; second level (List separately in addition to code for primary procedure)  |
| 22869                       | Insertion of interlaminar/interspinous process stabilization/distraction device, without open decompression or fusion, including image guidance when performed, lumbar; single level   |
| 22870                       | Insertion of interlaminar/interspinous process stabilization/distraction device, without open decompression or fusion, including image guidance when performed, lumbar; second level (List separately in addition to code for primary procedure)   |
| 62380                       | Endoscopic decompression of spinal cord, nerve root(s), including laminotomy, partial facetectomy, foraminotomy, discectomy and/or excision of herniated intervertebral disc, 1 interspace, lumbar   |
| 63001                       | Laminectomy with exploration and/or decompression of spinal cord and/or cauda equina, without facetectomy, foraminotomy or discectomy (eg, spinal stenosis), 1 or 2 vertebral segments; cervical   |
| 63005                       | Laminectomy with exploration and/or decompression of spinal cord and/or cauda equina, without facetectomy, foraminotomy or discectomy (eg, spinal stenosis), 1 or 2 vertebral segments; lumbar, except for spondylolisthesis   |
| 63012                       | Laminectomy with removal of abnormal facets and/or pars inter-articularis with decompression of cauda equina and nerve roots for spondylolisthesis, lumbar (Gill type procedure)   |
| 63015                       | Laminectomy with exploration and/or decompression of spinal cord and/or cauda equina, without facetectomy, foraminotomy or discectomy (eg, spinal stenosis), more than 2 vertebral segments; cervical  |
| 63017                       | Laminectomy with exploration and/or decompression of spinal cord and/or cauda equina, without facetectomy, foraminotomy or discectomy (eg, spinal stenosis), more than 2 vertebral segments; lumbar  |
| 63020                       | Laminotomy (hemilaminectomy), with decompression of nerve root(s), including partial facetectomy, foraminotomy and/or excision of herniated intervertebral disc; 1 interspace, cervical  |
| 63030                       | Laminotomy (hemilaminectomy), with decompression of nerve root(s), including partial facetectomy, foraminotomy and/or excision of herniated intervertebral disc; 1 interspace, lumbar  |
| 63035                       | Laminotomy (hemilaminectomy), with decompression of nerve root(s), including partial facetectomy, foraminotomy and/or excision of herniated intervertebral disc; each additional interspace, cervical or lumbar (List separately in addition to code for primary procedure)                |
| 63040                       | Laminotomy (hemilaminectomy), with decompression of nerve root(s), including partial facetectomy, foraminotomy and/or excision of herniated intervertebral disc, reexploration, single interspace; cervical  |
| 63042                       | Laminotomy (hemilaminectomy), with decompression of nerve root(s), including partial facetectomy, foraminotomy and/or excision of herniated intervertebral disc, reexploration, single interspace; lumbar  |

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| A-4 Musculoskeletal - Spine |   |
|-----------------------------|---|
| Code                        | Code Description  |
| 63043                       | Laminotomy (hemilaminectomy), with decompression of nerve root(s), including partial facetectomy, foraminotomy and/or excision of herniated intervertebral disc, reexploration, single interspace; each additional cervical interspace (List separately in addition to code for primary procedure)                              |
| 63044                       | Laminotomy (hemilaminectomy), with decompression of nerve root(s), including partial facetectomy, foraminotomy and/or excision of herniated intervertebral disc, reexploration, single interspace; each additional lumbar interspace (List separately in addition to code for primary procedure)                                |
| 63045                       | Laminectomy, facetectomy and foraminotomy (unilateral or bilateral with decompression of spinal cord, cauda equina and/or nerve root[s], [eg, spinal or lateral recess stenosis]), single vertebral segment; cervical   |
| 63047                       | Laminectomy, facetectomy and foraminotomy (unilateral or bilateral with decompression of spinal cord, cauda equina and/or nerve root[s], [eg, spinal or lateral recess stenosis]), single vertebral segment; lumbar   |
| 63048                       | Laminectomy, facetectomy and foraminotomy (unilateral or bilateral with decompression of spinal cord, cauda equina and/or nerve root[s], [eg, spinal or lateral recess stenosis]), single vertebral segment; each additional segment, cervical, thoracic, or lumbar (List separately in addition to code for primary procedure) |
| 63050                       | Laminoplasty, cervical, with decompression of the spinal cord, 2 or more vertebral segments;  |
| 63051                       | Laminoplasty, cervical, with decompression of the spinal cord, 2 or more vertebral segments; with reconstruction of the posterior bony elements (including the application of bridging bone graft and non-segmental fixation devices [eg, wire, suture, mini-plates], when performed)   |
| 63056                       | Transpedicular approach with decompression of spinal cord, equina and/or nerve root(s) (eg, herniated intervertebral disc), single segment; lumbar (including transfacet, or lateral extraforaminal approach) (eg, far lateral herniated intervertebral disc)   |
| 63057                       | Transpedicular approach with decompression of spinal cord, equina and/or nerve root(s) (eg, herniated intervertebral disc), single segment; each additional segment, thoracic or lumbar (List separately in addition to code for primary procedure)   |
| 63075                       | Discectomy, anterior, with decompression of spinal cord and/or nerve root(s), including osteophyctectomy; cervical, single interspace   |
| 63076                       | Discectomy, anterior, with decompression of spinal cord and/or nerve root(s), including osteophyctectomy; cervical, each additional interspace (List separately in addition to code for primary procedure)  |
| 63081                       | Vertebral corpectomy (vertebral body resection), partial or complete, anterior approach with decompression of spinal cord and/or nerve root(s); cervical, single segment  |
| 63082                       | Vertebral corpectomy (vertebral body resection), partial or complete, anterior approach with decompression of spinal cord and/or nerve root(s); cervical, each additional segment (List separately in addition to code for primary procedure)   |
| 0164T                       | Removal of total disc arthroplasty, (artificial disc), anterior approach, each additional interspace, lumbar (List separately in addition to code for primary procedure)  |
| E0748                       | Osteogenesis stimulator, electrical, non-invasive, spinal applications  |
| E0749                       | Osteogenesis stimulator, electrical, surgically implanted   |
| S2360                       | Percutaneous vertebroplasty, one vertebral body, unilateral or bilateral injection; cervical  |
| S2361                       | Each additional cervical vertebral body (list separately in addition to code for primary procedure)   |

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| A-4 Musculoskeletal - Pain |  |
|----------------------------|--|
| Code                       | Code Description   |
| 27096                      | Injection procedure for sacroiliac joint, anesthetic/steroid, with image guidance (fluoroscopy or CT) including arthrography when performed  |
| 62280                      | Injection/infusion of neurolytic substance (eg, alcohol, phenol, iced saline solutions), with or without other therapeutic substance; subarachnoid   |
| 62281                      | Injection/infusion of neurolytic substance (eg, alcohol, phenol, iced saline solutions), with or without other therapeutic substance; epidural, cervical or thoracic   |
| 62282                      | Injection/infusion of neurolytic substance (eg, alcohol, phenol, iced saline solutions), with or without other therapeutic substance; epidural, lumbar, sacral (caudal)  |
| 62320                      | Injection(s), of diagnostic or therapeutic substance(s) (eg, anesthetic, antispasmodic, opioid, steroid, other solution), not including neurolytic substances, including needle or catheter placement, interlaminar epidural or subarachnoid, cervical or thoracic; without imaging guidance   |
| 62321                      | Injection(s), of diagnostic or therapeutic substance(s) (eg, anesthetic, antispasmodic, opioid, steroid, other solution), not including neurolytic substances, including needle or catheter placement, interlaminar epidural or subarachnoid, cervical or thoracic; with imaging guidance (ie, fluoroscopy or CT)  |
| 62322                      | Injection(s), of diagnostic or therapeutic substance(s) (eg, anesthetic, antispasmodic, opioid, steroid, other solution), not including neurolytic substances, including needle or catheter placement, interlaminar epidural or subarachnoid, lumbar or sacral (caudal); without imaging guidance  |
| 62323                      | Injection(s), of diagnostic or therapeutic substance(s) (eg, anesthetic, antispasmodic, opioid, steroid, other solution), not including neurolytic substances, including needle or catheter placement, interlaminar epidural or subarachnoid, lumbar or sacral (caudal); with imaging guidance (ie, fluoroscopy or CT)   |
| 62324                      | Injection(s), including indwelling catheter placement, continuous infusion or intermittent bolus, of diagnostic or therapeutic substance(s) (eg, anesthetic, antispasmodic, opioid, steroid, other solution), not including neurolytic substances, interlaminar epidural or subarachnoid, cervical or thoracic; without imaging guidance                           |
| 62325                      | Injection(s), including indwelling catheter placement, continuous infusion or intermittent bolus, of diagnostic or therapeutic substance(s) (eg, anesthetic, antispasmodic, opioid, steroid, other solution), not including neurolytic substances, interlaminar epidural or subarachnoid, cervical or thoracic; with imaging guidance (ie, fluoroscopy or CT)      |
| 62326                      | Injection(s), including indwelling catheter placement, continuous infusion or intermittent bolus, of diagnostic or therapeutic substance(s) (eg, anesthetic, antispasmodic, opioid, steroid, other solution), not including neurolytic substances, interlaminar epidural or subarachnoid, lumbar or sacral (caudal); without imaging guidance                      |
| 62327                      | Injection(s), including indwelling catheter placement, continuous infusion or intermittent bolus, of diagnostic or therapeutic substance(s) (eg, anesthetic, antispasmodic, opioid, steroid, other solution), not including neurolytic substances, interlaminar epidural or subarachnoid, lumbar or sacral (caudal); with imaging guidance (ie, fluoroscopy or CT) |
| 62350                      | Implantation, revision or repositioning of tunneled intrathecal or epidural catheter, for long-term medication administration via an external pump or implantable reservoir/infusion pump; without laminectomy   |
| 62351                      | Implantation, revision or repositioning of tunneled intrathecal or epidural catheter, for long-term medication administration via an external pump or implantable reservoir/infusion pump; with laminectomy  |
| 62360                      | Implantation or replacement of device for intrathecal or epidural drug infusion; subcutaneous reservoir  |



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| A-4 Musculoskeletal - Pain |  |
|----------------------------|--|
| Code                       | Code Description   |
| 62361                      | Implantation or replacement of device for intrathecal or epidural drug infusion; nonprogrammable pump  |
| 62362                      | Implantation or replacement of device for intrathecal or epidural drug infusion; programmable pump, including preparation of pump, with or without programming   |
| 63650                      | Percutaneous implantation of neurostimulator electrode array, epidural   |
| 63655                      | Laminectomy for implantation of neurostimulator electrodes, plate/paddle, epidural   |
| 63685                      | Insertion or replacement of spinal neurostimulator pulse generator or receiver, direct or inductive coupling   |
| 64479                      | Injection(s), anesthetic agent and/or steroid, transforaminal epidural, with imaging guidance (fluoroscopy or CT); cervical or thoracic, single level  |
| 64480                      | Injection(s), anesthetic agent and/or steroid, transforaminal epidural, with imaging guidance (fluoroscopy or CT); cervical or thoracic, each additional level (List separately in addition to code for primary procedure)   |
| 64483                      | Injection(s), anesthetic agent and/or steroid, transforaminal epidural, with imaging guidance (fluoroscopy or CT); lumbar or sacral, single level  |
| 64484                      | Injection(s), anesthetic agent and/or steroid, transforaminal epidural, with imaging guidance (fluoroscopy or CT); lumbar or sacral, each additional level (List separately in addition to code for primary procedure)   |
| 64490                      | Injection(s), diagnostic or therapeutic agent, paravertebral facet (zygapophyseal) joint (or nerves innervating that joint) with image guidance (fluoroscopy or CT), cervical or thoracic; single level  |
| 64491                      | Injection(s), diagnostic or therapeutic agent, paravertebral facet (zygapophyseal) joint (or nerves innervating that joint) with image guidance (fluoroscopy or CT), cervical or thoracic; second level (List separately in addition to code for primary procedure)                      |
| 64492                      | Injection(s), diagnostic or therapeutic agent, paravertebral facet (zygapophyseal) joint (or nerves innervating that joint) with image guidance (fluoroscopy or CT), cervical or thoracic; third and any additional level(s) (List separately in addition to code for primary procedure) |
| 64493                      | Injection(s), diagnostic or therapeutic agent, paravertebral facet (zygapophyseal) joint (or nerves innervating that joint) with image guidance (fluoroscopy or CT), lumbar or sacral; single level  |
| 64494                      | Injection(s), diagnostic or therapeutic agent, paravertebral facet (zygapophyseal) joint (or nerves innervating that joint) with image guidance (fluoroscopy or CT), lumbar or sacral; second level (List separately in addition to code for primary procedure)                          |
| 64495                      | Injection(s), diagnostic or therapeutic agent, paravertebral facet (zygapophyseal) joint (or nerves innervating that joint) with image guidance (fluoroscopy or CT), lumbar or sacral; third and any additional level(s) (List separately in addition to code for primary procedure)     |
| 64510                      | Injection, anesthetic agent; stellate ganglion (cervical sympathetic)  |
| 64520                      | Injection, anesthetic agent; lumbar or thoracic (paravertebral sympathetic)  |
| 64633                      | Destruction by neurolytic agent, paravertebral facet joint nerve(s), with imaging guidance (fluoroscopy or CT); cervical or thoracic, single facet joint   |
| 64634                      | Destruction by neurolytic agent, paravertebral facet joint nerve(s), with imaging guidance (fluoroscopy or CT); cervical or thoracic, each additional facet joint (List separately in addition to code for primary procedure)  |
| 64635                      | Destruction by neurolytic agent, paravertebral facet joint nerve(s), with imaging guidance (fluoroscopy or CT); lumbar or sacral, single facet joint   |
| 64636                      | Destruction by neurolytic agent, paravertebral facet joint nerve(s), with imaging guidance (fluoroscopy or CT); lumbar or sacral, each additional facet joint (List separately in addition to code for primary procedure)  |



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| A-5 Sleep Testing |  |
|-------------------|--|
| Code              | Code Description   |
| 95782             | Polysomnography; younger than 6 years, sleep staging with 4 or more additional parameters of sleep, attended by a technologist   |
| 95783             | Polysomnography; younger than 6 years, sleep staging with 4 or more additional parameters of sleep, with initiation of continuous positive airway pressure therapy or bi-level ventilation, attended by a technologist         |
| 95800             | Sleep study, unattended, simultaneous recording; heart rate, oxygen saturation, respiratory analysis (eg, by airflow or peripheral arterial tone), and sleep time  |
| 95801             | Sleep study, unattended, simultaneous recording; minimum of heart rate, oxygen saturation, and respiratory analysis (eg, by airflow or peripheral arterial tone)   |
| 95805             | Multiple sleep latency or maintenance of wakefulness testing, recording, analysis and interpretation of physiological measurements of sleep during multiple trials to assess sleepiness  |
| 95806             | Sleep study, unattended, simultaneous recording of, heart rate, oxygen saturation, respiratory airflow, and respiratory effort (eg, thoracoabdominal movement)   |
| 95807             | Sleep study, simultaneous recording of ventilation, respiratory effort, ECG or heart rate, and oxygen saturation, attended by a technologist   |
| 95808             | Polysomnography; any age, sleep staging with 1-3 additional parameters of sleep, attended by a technologist  |
| 95810             | Polysomnography; age 6 years or older, sleep staging with 4 or more additional parameters of sleep, attended by a technologist   |
| 95811             | Polysomnography; age 6 years or older, sleep staging with 4 or more additional parameters of sleep, with initiation of continuous positive airway pressure therapy or bilevel ventilation, attended by a technologist          |
| G0398             | Home sleep study test (hst) with type ii portable monitor, unattended; minimum of 7 channels: eeg, eog, emg, ecg/heart rate, airflow, respiratory effort and oxygen saturation   |
| G0399             | Home sleep test (hst) with type iii portable monitor, unattended; minimum of 4 channels: 2 respiratory movement/airflow, 1 ecg/heart rate and 1 oxygen saturation  |
| G0400             | Home sleep test (hst) with type iv portable monitor, unattended; minimum of 3 channels   |
| A4604             | Tubing with integrated heating element for use with positive airway pressure device  |
| A7027             | Combination oral/nasal mask, used with continuous positive airway pressure device, each  |
| A7028             | Oral cushion for combination oral/nasal mask, replacement only, each   |
| A7029             | Nasal pillows for combination oral/nasal mask, replacement only, pair  |
| A7030             | Full face mask used with positive airway pressure device, each   |
| A7031             | Face mask interface, replacement for full face mask, each  |
| A7032             | Cushion for use on nasal mask interface, replacement only, each  |
| A7033             | Pillow for use on nasal cannula type interface, replacement only, pair   |
| A7034             | Nasal interface (mask or cannula type) used with positive airway pressure device, with or without head strap   |
| A7035             | Headgear used with positive airway pressure device   |
| A7036             | Chinstrap used with positive airway pressure device  |
| A7037             | Tubing used with positive airway pressure device   |
| A7038             | Filter, disposable, used with positive airway pressure device  |
| A7039             | Filter, non disposable, used with positive airway pressure device  |
| A7044             | Oral interface used with positive airway pressure device, each   |
| A7045             | Exhalation port with or without swivel used with accessories for positive airway devices, replacement only   |
| A7046             | Water chamber for humidifier, used with positive airway pressure device, replacement, each   |
| E0470             | Respiratory assist device, bi-level pressure capability, without backup rate feature, used with noninvasive interface, e.g., nasal or facial mask (intermittent assist device with continuous positive airway pressure device) |

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| A-5 Sleep Testing |  |
|-------------------|--|
| Code              | Code Description   |
| E0471             | Respiratory assist device, bi-level pressure capability, with back-up rate feature, used with noninvasive interface, e.g., nasal or facial mask (intermittent assist device with continuous positive airway pressure device) |
| E0601             | Continuous positive airway pressure (cpap) device  |
| E0561             | Humidifier, non-heated, used with positive airway pressure device  |
| E0562             | Humidifier, heated, used with positive airway pressure device  |

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| A-6 Medical Oncology |   |                          |
|----------------------|---|--------------------------|
| Code                 | Code Description  | Brand Description        |
| C9483                | Injection, atezolizumab, 10 mg  | Tecentriq                |
| J0202                | Injection, alemtuzumab, 1 mg  |                          |
| J0207                | Injection, amifostine, 500 mg   |                          |
| J0640                | Injection, leucovorin calcium, per 50 mg  |                          |
| J0641                | Injection, levoleucovorin calcium, 0.5 mg   |                          |
| J0881                | Injection, darbepoetin alfa, 1 microgram (non-esrd use)                                 |                          |
| J0885                | Injection, epoetin alfa, (for non-esrd use), 1000 units                                 | Epogen, Procrit          |
| J0888                | Injection, epoetin beta, 1 microgram, (for non esrd use)                                |                          |
| J0894                | Injection, decitabine, 1 mg   |                          |
| J0897                | Injection, denosumab, 1 mg  | Xgeva, Prolia            |
| J1442                | Injection, filgrastim (g-csf), eXcludes biosimilars, 1 microgram                        |                          |
| J1447                | Injection, tbo-filgrastim, 1 microgram  |                          |
| J1453                | Injection, fosaprepitant, 1 mg  |                          |
| J1930                | Injection, lanreotide, 1 mg   |                          |
| J2353                | Injection, octreotide, depot form for intramuscular injection, 1 mg                     |                          |
| J2354                | Injection, octreotide, non-depot form for subcutaneous or intravenous injection, 25 mcg |                          |
| J2355                | Injection, oprelvekin, 5 mg   |                          |
| J2430                | Injection, pamidronate disodium, per 30 mg  |                          |
| J2469                | Injection, palonosetron hcl, 25 mcg   |                          |
| J2505                | Injection, pegfilgrastim, 6 mg  |                          |
| J2562                | Injection, pleriXafor, 1 mg   |                          |
| J2783                | Injection, rasburicase, 0.5 mg  |                          |
| J2820                | Injection, sargramostim (gm-csf), 50 mcg  |                          |
| J2860                | Injection, siltuXimab, 10 mg  |                          |
| J3262                | Injection, tocilizumab, 1 mg  |                          |
| J3315                | Injection, triptorelin pamoate, 3.75 mg   |                          |
| J3489                | Injection, zoledronic acid, 1 mg  |                          |
| J3490                | Unclassified drugs  | PegIntron, Sylatron      |
| J3490                | Unclassified drugs  | Granisetron              |
| J3590                | Unclassified biologics  |                          |
| J9999                | Unclassified neoplastic   |                          |
| J9000                | Injection, doxorubicin hydrochloride, 10 mg   | Adriamycin,              |
| J9015                | Injection, aldesleukin, per single use vial   | Proleukin, Interleukin-2 |
| J9017                | Injection, arsenic trioXide, 1 mg   |                          |
| J9019                | Injection, asparaginase (erwinaze), 1,000 iu  |                          |
| J9025                | Injection, azacitidine, 1 mg  |                          |
| J9027                | Injection, clofarabine, 1 mg  |                          |
| J9031                | BCG (intravesical) per instillation   | TheraCys, Tice           |
| J9032                | Injection, belinostat, 10 mg  |                          |
| J9033                | Injection, bendamustine hcl, 1 mg   |                          |
| J9034                | Injection, bendamustine HCl (bendeka), 1 mg   |                          |
| J9035                | Injection, bevacizumab, 10 mg   |                          |

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|----------------------|---|-------------------------------|
| Code                 | Code Description  | Brand Description             |
| J9039                | Injection, blinatumomab, 1 microgram                                |                               |
| J9040                | Injection, bleomycin sulfate, 15 units                              |                               |
| J9041                | Injection, bortezomib, 0.1 mg                                       |                               |
| J9042                | Injection, brentuximab vedotin, 1 mg                                |                               |
| J9043                | Injection, cabazitaxel, 1 mg  |                               |
| J9045                | Injection, carboplatin, 50 mg                                       |                               |
| J9047                | Injection, carfilzomib, 1 mg  |                               |
| J9050                | Injection, carmustine, 100 mg                                       | BiCNU, BCNU                   |
| J9055                | Injection, cetuximab, 10 mg   |                               |
| J9060                | Injection, cisplatin, powder or solution, 10 mg                     |                               |
| J9098                | Injection, cytarabine liposome, 10 mg                               |                               |
| J9100                | Injection, cytarabine, 100 mg                                       |                               |
| J9120                | Injection, dactinomycin, 0.5 mg                                     | Cosmegen, Actinomycin         |
| J9130                | Dacarbazine, 100 mg   |                               |
| J9145                | Injection, daratumumab, 10 mg                                       | Daratumumab                   |
| J9150                | Injection, daunorubicin, 10 mg                                      |                               |
| J9151                | Injection, daunorubicin citrate, liposomal formulation, 10 mg       |                               |
| J9155                | Injection, degarelix, 1 mg  |                               |
| J9171                | Injection, docetaxel, 1 mg  |                               |
| J9175                | Injection, elliotts' b solution, 1 ml                               |                               |
| J9176                | Injection, elotuzumab, 1 mg   | Elotuzumab                    |
| J9178                | Injection, epirubicin hcl, 2 mg                                     |                               |
| J9179                | Injection, eribulin mesylate, 0.1 mg                                |                               |
| J9181                | Injection, etoposide, 10 mg   | Toposar, VePesid              |
| J9185                | Injection, fludarabine phosphate, 50 mg                             | Fludara, Oforta               |
| J9190                | Injection, fluorouracil, 500 mg                                     | 5FU, Adrucil                  |
| J9200                | Injection, floxuridine, 500 mg                                      |                               |
| J9201                | Injection, gemcitabine hydrochloride, 200 mg                        |                               |
| J9202                | Goserelin acetate implant, per 3.6 mg                               |                               |
| J9205                | Injection, irinotecan liposome, 1 mg                                | Onivyde                       |
| J9206                | Injection, irinotecan, 20 mg  |                               |
| J9207                | Injection, ixabepilone, 1 mg  |                               |
| J9208                | Injection, ifosfamide, 1 gram                                       | IfeX, Mitoxana                |
| J9209                | Injection, mesna, 200 mg  |                               |
| J9211                | Injection, idarubicin hydrochloride, 5 mg                           |                               |
| J9214                | Injection, interferon, alfa-2b, recombinant, 1 million units        |                               |
| J9216                | Injection, interferon, gamma 1-b, 3 million units                   |                               |
| J9217                | Leuprolide acetate (for depot suspension), 7.5 mg                   | Eligard, Lupron Depot, Lupron |
| J9225                | Histrelin implant (vantas), 50 mg                                   |                               |
| J9228                | Injection, ipilimumab, 1 mg   |                               |
| J9230                | Injection, mechlorethamine hydrochloride, (nitrogen mustard), 10 mg |                               |

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| Code                 | Code Description   | Brand Description     |
| J9245                | Injection, melphalan hydrochloride, 50 mg  |                       |
| J9261                | Injection, nelarabine, 50 mg   |                       |
| J9262                | Injection, omacetaXine mepesuccinate, 0.01 mg  |                       |
| J9263                | Injection, oXaliplatin, 0.5 mg   |                       |
| J9264                | Injection, paclitaXel protein-bound particles, 1 mg  |                       |
| J9266                | Injection, pegaspargase, per single dose vial  |                       |
| J9267                | Injection, paclitaXel, 1 mg  | Nov-Onxol, TaXol      |
| J9268                | Injection, pentostatin, 10 mg  |                       |
| J9271                | Injection, pembrolizumab, 1 mg   |                       |
| J9280                | Injection, mitomycin, 5 mg   |                       |
| J9293                | Injection, mitoXantrone hydrochloride, per 5 mg  |                       |
| J9295                | Injection, necitumumab, 1 mg   | Portrazza             |
| J9299                | Injection, nivolumab, 1 mg   |                       |
| J9301                | Injection, obinutuzumab, 10 mg   |                       |
| J9302                | Injection, ofatumumab, 10 mg   |                       |
| J9303                | Injection, panitumumab, 10 mg  |                       |
| J9305                | Injection, pemetreXed, 10 mg   |                       |
| J9306                | Injection, pertuzumab, 1 mg  |                       |
| J9307                | Injection, pralatreXate, 1 mg  |                       |
| J9308                | Injection, ramucirumab, 5 mg   |                       |
| J9310                | Injection, rituXimab, 100 mg   |                       |
| J9315                | Injection, romidepsin, 1 mg  |                       |
| J9320                | Injection, streptozocin, 1 gram  |                       |
| J9325                | Injection, talimogene laherparepvec, per 1 million plaque forming units  | Imlygic               |
| J9328                | Injection, temozolomide, 1 mg  |                       |
| J9330                | Injection, temsirolimus, 1 mg  |                       |
| J9340                | Injection, thiotepa, 15 mg   |                       |
| J9351                | Injection, topotecan, 0.1 mg   |                       |
| J9352                | Injection, trabectedin, 0.1 mg   | Yondelis              |
| J9354                | Injection, ado-trastuzumab emtansine, 1 mg   |                       |
| J9355                | Injection, trastuzumab, 10 mg  |                       |
| J9357                | Injection, valrubicin, intravesical, 200 mg  |                       |
| J9360                | Injection, vinblastine sulfate, 1 mg   |                       |
| J9370                | Vincristine sulfate, 1 mg  | Oncovin, Vincasar PFS |
| J9371                | Injection, vincristine sulfate liposome, 1 mg  |                       |
| J9390                | Injection, vinorelbine tartrate, 10 mg   |                       |
| J9395                | Injection, fulvestrant, 25 mg  |                       |
| J9400                | Injection, ziv-aflibercept, 1 mg   |                       |
| J9600                | Injection, porfimer sodium, 75 mg  |                       |
| Q2017                | Injection, teniposide, 50 mg   |                       |
| Q2043                | Sipuleucel-t, minimum of 50 million autologous cd54+ cells activated with pap-gm-csf, including leukapheresis and all other preparatory procedures, per infusion |                       |

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| Code                 | Code Description   | Brand Description |
| Q2049                | Injection, doXorubicin hydrochloride, liposomal, imported lipodoX, 10 mg | DoXil, LipodoX    |
| Q5101                | Injection, filgrastim (g-csf), biosimilar, 1 microgram                   |                   |
| J9034                | Injection, bendamustine hcl (bendeka), 1 mg                              |                   |
| J9145                | Injection, daratumumab, 10 mg  |                   |
| J9176                | Injection, elotuzumab, 1 mg  |                   |
| J9205                | Injection, irinotecan liposome, 1 mg                                     |                   |
| J9295                | Injection, necitumumab, 1 mg   |                   |
| J9325                | Injection, talimogene laherparepvec, per 1 million plaque forming units  |                   |
| J9352                | Injection, trabectedin, 0.1 mg   |                   |



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|------------------------|---|
| Code                   | Code Description  |
| 77014                  | Computed tomography guidance for placement of radiation therapy fields  |
| 77371                  | Radiation treatment delivery, stereotactic radiosurgery (SRS), complete course of treatment of cranial lesion(s) consisting of 1 session; multi-source Cobalt 60 based                        |
| 77372                  | Radiation treatment delivery, stereotactic radiosurgery (SRS), complete course of treatment of cranial lesion(s) consisting of 1 session; linear accelerator based                            |
| 77373                  | Stereotactic body radiation therapy, treatment delivery, per fraction to 1 or more lesions, including image guidance, entire course not to exceed 5 fractions                                 |
| 77385                  | Intensity modulated radiation treatment delivery (IMRT), includes guidance and tracking, when performed; simple   |
| 77386                  | Intensity modulated radiation treatment delivery (IMRT), includes guidance and tracking, when performed; complex  |
| 77387                  | Guidance for localization of target volume for delivery of radiation treatment delivery, includes intrafraction tracking, when performed  |
| 77401                  | Radiation treatment delivery, superficial and/or ortho voltage, per day   |
| 77402                  | Radiation treatment delivery, >=1 MeV; simple   |
| 77407                  | Radiation treatment delivery, >=1 MeV; intermediate   |
| 77412                  | Radiation treatment delivery, >=1 MeV; complex  |
| 77422                  | High energy neutron radiation treatment delivery; single treatment area using a single port or parallel-opposed ports with no blocks or simple blocking                                       |
| 77423                  | High energy neutron radiation treatment delivery; 1 or more isocenter(s) with coplanar or non-coplanar geometry with blocking and/or wedge, and/or compensator(s)                             |
| 77424                  | Intraoperative radiation treatment delivery, x-ray, single treatment session  |
| 77425                  | Intraoperative radiation treatment delivery, electrons, single treatment session  |
| 77520                  | Proton treatment delivery; simple, without compensation   |
| 77522                  | Proton treatment delivery; simple, with compensation  |
| 77523                  | Proton treatment delivery; intermediate   |
| 77525                  | Proton treatment delivery; complex  |
| 77600                  | Hyperthermia, externally generated; superficial (ie, heating to a depth of 4 cm or less)  |
| 77605                  | Hyperthermia, externally generated; deep (ie, heating to depths greater than 4 cm)  |
| 77610                  | Hyperthermia generated by interstitial probe(s); 5 or fewer interstitial applicators  |
| 77615                  | Hyperthermia generated by interstitial probe(s); more than 5 interstitial applicators   |
| 77620                  | Hyperthermia generated by intracavitary probe(s)  |
| 77750                  | Infusion or instillation of radioelement solution (includes 3-month follow-up care)   |
| 77761                  | Intracavitary radiation source application; simple  |
| 77762                  | Intracavitary radiation source application; intermediate  |
| 77763                  | Intracavitary radiation source application; complex   |
| 77767                  | Remote afterloading high dose rate radionuclide skin surface brachytherapy, includes basic dosimetry, when performed; lesion diameter up to 2.0 cm or 1 channel                               |
| 77768                  | Remote afterloading high dose rate radionuclide skin surface brachytherapy, includes basic dosimetry, when performed; lesion diameter over 2.0 cm and 2 or more channels, or multiple lesions |
| 77770                  | Remote afterloading high dose rate radionuclide interstitial or intracavitary brachytherapy, includes basic dosimetry, when performed; 1 channel  |

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| <b>A-7 Radiation Oncology</b> |  |
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| <b>Code</b>                   | <b>Code Description</b>  |
| 77771                         | Remote afterloading high dose rate radionuclide interstitial or intracavitary brachytherapy, includes basic dosimetry, when performed; 2-12 channels   |
| 77772                         | Remote afterloading high dose rate radionuclide interstitial or intracavitary brachytherapy, includes basic dosimetry, when performed; over 12 channels  |
| 77778                         | Interstitial radiation source application, complex, includes supervision, handling, loading of radiation source, when performed  |
| 79403                         | Radiopharmaceutical therapy, radiolabeled monoclonal antibody by intravenous infusion  |
| 0394T                         | High dose rate electronic brachytherapy, skin surface application, per fraction, includes basic dosimetry, when performed  |
| 0395T                         | High dose rate electronic brachytherapy, interstitial or intracavitary treatment, per fraction, includes basic dosimetry, when performed   |
| A9543                         | Yttrium y-90 ibritumomab tiuxetan, therapeutic, per treatment dose, up to 40 millicuries   |
| A9606                         | Radium ra-223 dichloride, therapeutic, per microcurie  |
| G0339                         | Image-guided robotic linear accelerator-based stereotactic radiosurgery, complete course of therapy in one session or first session of fractionated treatment  |
| G0340                         | Image-guided robotic linear accelerator-based stereotactic radiosurgery, delivery including collimator changes and custom plugging, fractionated treatment, all lesions, per session, second through fifth sessions, maximum five sessions per course of treatment |
| G6001                         | Ultrasonic guidance for placement of radiation therapy fields  |
| G6002                         | Stereoscopic x-ray guidance for localization of target volume for the delivery of radiation therapy  |
| G6003                         | Radiation treatment delivery, single treatment area, single port or parallel opposed ports, simple blocks or no blocks: up to 5 mev  |
| G6004                         | Radiation treatment delivery, single treatment area, single port or parallel opposed ports, simple blocks or no blocks: 6-10 mev   |
| G6005                         | Radiation treatment delivery, single treatment area, single port or parallel opposed ports, simple blocks or no blocks: 11-19 mev  |
| G6006                         | Radiation treatment delivery, single treatment area, single port or parallel opposed ports, simple blocks or no blocks: 20 mev or greater  |
| G6007                         | Radiation treatment delivery, 2 separate treatment areas, 3 or more ports on a single treatment area, use of multiple blocks: up to 5 mev  |
| G6008                         | Radiation treatment delivery, 2 separate treatment areas, 3 or more ports on a single treatment area, use of multiple blocks: 6-10 mev   |
| G6009                         | Radiation treatment delivery, 2 separate treatment areas, 3 or more ports on a single treatment area, use of multiple blocks: 11-19 mev  |
| G6010                         | Radiation treatment delivery, 2 separate treatment areas, 3 or more ports on a single treatment area, use of multiple blocks: 20 mev or greater  |
| G6011                         | Radiation treatment delivery, 3 or more separate treatment areas, custom blocking, tangential ports, wedges, rotational beam, compensators, electron beam; up to 5 mev   |
| G6012                         | Radiation treatment delivery, 3 or more separate treatment areas, custom blocking, tangential ports, wedges, rotational beam, compensators, electron beam; 6-10 mev  |
| G6013                         | Radiation treatment delivery, 3 or more separate treatment areas, custom blocking, tangential ports, wedges, rotational beam, compensators, electron beam; 11-19 mev   |

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| G6014                  | Radiation treatment delivery, 3 or more separate treatment areas, custom blocking, tangential ports, wedges, rotational beam, compensators, electron beam; 20 mev or greater                            |
| G6015                  | Intensity modulated treatment delivery, single or multiple fields/arcs, via narrow spatially and temporally modulated beams, binary, dynamic mlc, per treatment session                                 |
| G6016                  | Compensator-based beam modulation treatment delivery of inverse planned treatment using 3 or more high resolution (milled or cast) compensator, convergent beam modulated fields, per treatment session |

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| A-8 Molecular Genetic Lab |  |
|---------------------------|--|
| Code                      | Code Description   |
| 81162                     | BRCA1, BRCA2 (breast cancer 1 and 2) (eg, hereditary breast and ovarian cancer) gene analysis; full sequence analysis and full duplication/deletion analysis   |
| 81201                     | APC (adenomatous polyposis coli) (eg, familial adenomatosis polyposis [FAP], attenuated FAP) gene analysis; full gene sequence   |
| 81203                     | APC (adenomatous polyposis coli) (eg, familial adenomatosis polyposis [FAP], attenuated FAP) gene analysis; duplication/deletion variants  |
| 81211                     | BRCA1, BRCA2 (breast cancer 1 and 2) (eg, hereditary breast and ovarian cancer) gene analysis; full sequence analysis and common duplication/deletion variants in BRCA1 (ie, exon 13 del 3.835kb, exon 13 dup 6kb, exon 14-20 del 26kb, exon 22 del 510bp, exon 8-9 del 7.1kb) |
| 81212                     | BRCA1, BRCA2 (breast cancer 1 and 2) (eg, hereditary breast and ovarian cancer) gene analysis; 185delAG, 5385insC, 6174delT variants   |
| 81213                     | BRCA1, BRCA2 (breast cancer 1 and 2) (eg, hereditary breast and ovarian cancer) gene analysis; uncommon duplication/deletion variants  |
| 81214                     | BRCA1 (breast cancer 1) (eg, hereditary breast and ovarian cancer) gene analysis; full sequence analysis and common duplication/deletion variants (ie, exon 13 del 3.835kb, exon 13 dup 6kb, exon 14-20 del 26kb, exon 22 del 510bp, exon 8-9 del 7.1kb)                       |
| 81215                     | BRCA1 (breast cancer 1) (eg, hereditary breast and ovarian cancer) gene analysis; known familial variant   |
| 81216                     | BRCA2 (breast cancer 2) (eg, hereditary breast and ovarian cancer) gene analysis; full sequence analysis   |
| 81217                     | BRCA2 (breast cancer 2) (eg, hereditary breast and ovarian cancer) gene analysis; known familial variant   |
| 81222                     | CFTR (cystic fibrosis transmembrane conductance regulator) (eg, cystic fibrosis) gene analysis; duplication/deletion variants  |
| 81223                     | CFTR (cystic fibrosis transmembrane conductance regulator) (eg, cystic fibrosis) gene analysis; full gene sequence   |
| 81225                     | CYP2C19 (cytochrome P450, family 2, subfamily C, polypeptide 19) (eg, drug metabolism), gene analysis, common variants (eg, *2, *3, *4, *8, *17)   |
| 81226                     | CYP2D6 (cytochrome P450, family 2, subfamily D, polypeptide 6) (eg, drug metabolism), gene analysis, common variants (eg, *2, *3, *4, *5, *6, *9, *10, *17, *19, *29, *35, *41, *1XN, *2XN, *4XN)  |
| 81227                     | CYP2C9 (cytochrome P450, family 2, subfamily C, polypeptide 9) (eg, drug metabolism), gene analysis, common variants (eg, *2, *3, *5, *6)  |
| 81228                     | Cytogenomic constitutional (genome-wide) microarray analysis; interrogation of genomic regions for copy number variants (eg, bacterial artificial chromosome [BAC] or oligo-based comparative genomic hybridization [CGH] microarray analysis)                                 |
| 81229                     | Cytogenomic constitutional (genome-wide) microarray analysis; interrogation of genomic regions for copy number and single nucleotide polymorphism (SNP) variants for chromosomal abnormalities   |
| 81287                     | MGMT (O-6-methylguanine-DNA methyltransferase) (eg, glioblastoma multiforme), methylation analysis   |
| 81291                     | MTHFR (5,10-methylenetetrahydrofolate reductase) (eg, hereditary hypercoagulability) gene analysis, common variants (eg, 677T, 1298C)  |
| 81292                     | MLH1 (mutL homolog 1, colon cancer, nonpolyposis type 2) (eg, hereditary non-polyposis colorectal cancer, Lynch syndrome) gene analysis; full sequence analysis  |
| 81294                     | MLH1 (mutL homolog 1, colon cancer, nonpolyposis type 2) (eg, hereditary non-polyposis colorectal cancer, Lynch syndrome) gene analysis; duplication/deletion variants   |
| 81295                     | MSH2 (mutS homolog 2, colon cancer, nonpolyposis type 1) (eg, hereditary non-polyposis colorectal cancer, Lynch syndrome) gene analysis; full sequence analysis  |

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| Code                      | Code Description   |
| 81297                     | MSH2 (mutS homolog 2, colon cancer, nonpolyposis type 1) (eg, hereditary non-polyposis colorectal cancer, Lynch syndrome) gene analysis; duplication/deletion variants   |
| 81298                     | MSH6 (mutS homolog 6 [E. coli]) (eg, hereditary non-polyposis colorectal cancer, Lynch syndrome) gene analysis; full sequence analysis                                   |
| 81300                     | MSH6 (mutS homolog 6 [E. coli]) (eg, hereditary non-polyposis colorectal cancer, Lynch syndrome) gene analysis; duplication/deletion variants                            |
| 81313                     | PCA3/KLK3 (prostate cancer antigen 3 [non-protein coding]/kallikrein-related peptidase 3 [prostate specific antigen]) ratio (eg, prostate cancer)                        |
| 81317                     | PMS2 (postmeiotic segregation increased 2 [S. cerevisiae]) (eg, hereditary non-polyposis colorectal cancer, Lynch syndrome) gene analysis; full sequence analysis        |
| 81319                     | PMS2 (postmeiotic segregation increased 2 [S. cerevisiae]) (eg, hereditary non-polyposis colorectal cancer, Lynch syndrome) gene analysis; duplication/deletion variants |
| 81321                     | PTEN (phosphatase and tensin homolog) (eg, Cowden syndrome, PTEN hamartoma tumor syndrome) gene analysis; full sequence analysis   |
| 81323                     | PTEN (phosphatase and tensin homolog) (eg, Cowden syndrome, PTEN hamartoma tumor syndrome) gene analysis; duplication/deletion variant                                   |
| 81325                     | PMP22 (peripheral myelin protein 22) (eg, Charcot-Marie-Tooth, hereditary neuropathy with liability to pressure palsies) gene analysis; full sequence analysis           |
| 81327                     | SEPT9 (Septin9) (eg, colorectal cancer) methylation analysis   |
| 81355                     | VKORC1 (vitamin K epoxide reductase complex, subunit 1) (eg, warfarin metabolism), gene analysis, common variant(s) (eg, -1639G>A, c.173+1000C>T)                        |

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| Code                      | Code Description   |
| 81400                     | <p>Molecular pathology procedure, Level 1 (eg, identification of single germline variant [eg, SNP] by techniques such as restriction enzyme digestion or melt curve analysis) ACADM (acyl-CoA dehydrogenase, C-4 to C-12 straight chain, MCAD) (eg, medium chain acyl dehydrogenase deficiency), K304E variant ACE (angiotensin converting enzyme) (eg, hereditary blood pressure regulation), insertion/deletion variant AGTR1 (angiotensin II receptor, type 1) (eg, essential hypertension), 1166A&gt;C variant BCKDHA (branched chain keto acid dehydrogenase E1, alpha polypeptide) (eg, maple syrup urine disease, type 1A), Y438N variant CCR5 (chemokine C-C motif receptor 5) (eg, HIV resistance), 32-bp deletion mutation/794825del32 deletion CLRN1 (clarin 1) (eg, Usher syndrome, type 3), N48K variant DPYD (dihydropyrimidine dehydrogenase) (eg, 5-fluorouracil/5-FU and capecitabine drug metabolism), IVS14+1G&gt;A variant F2 (coagulation factor 2) (eg, hereditary hypercoagulability), 1199G&gt;A variant F5 (coagulation factor V) (eg, hereditary hypercoagulability), HR2 variant F7 (coagulation factor VII [serum prothrombin conversion accelerator]) (eg, hereditary hypercoagulability), R353Q variant F13B (coagulation factor XIII, B polypeptide) (eg, hereditary hypercoagulability), V34L variant FGB (fibrinogen beta chain) (eg, hereditary ischemic heart disease), -455G&gt;A variant FGFR1 (fibroblast growth factor receptor 1) (eg, Pfeiffer syndrome type 1, craniosynostosis), P252R variant FGFR3 (fibroblast growth factor receptor 3) (eg, Muenke syndrome), P250R variant FKTN (fukutin) (eg, Fukuyama congenital muscular dystrophy), retrotransposon insertion variant GNE (glucosamine [UDP-N-acetyl]-2-epimerase/N-acetylmannosamine kinase) (eg, inclusion body myopathy 2 [IBM2], Nonaka myopathy), M712T variant Human Platelet Antigen 1 genotyping (HPA-1), ITGB3 (integrin, beta 3 [platelet glycoprotein IIIa], antigen CD61 [GPIIIa]) (eg, neonatal alloimmune thrombocytopenia [NAIT], post-transfusion purpura), HPA-1a/b (L33P) Human Platelet Antigen 2 genotyping (HPA-2), GP1BA (glycoprotein Ib [platelet], alpha polypeptide [GPIba]) (eg, neonatal alloimmune thrombocytopenia [NAIT], post-transfusion purpura), HPA-2a/b (T145M) Human Platelet Antigen 3 genotyping (HPA-3), ITGA2B (integrin, alpha 2b [platelet glycoprotein IIb of IIb/IIIa complex], antigen CD41 [GPIIb]) (eg, neonatal alloimmune thrombocytopenia [NAIT], post-transfusion purpura), HPA-3a/b (I843S) Human Platelet Antigen 4 genotyping (HPA-4), ITGB3 (integrin, beta 3 [platelet glycoprotein IIIa], antigen CD61 [GPIIIa]) (eg, neonatal alloimmune thrombocytopenia [NAIT], post-transfusion purpura), HPA-4a/b (R143Q) Human Platelet Antigen 5 genotyping (HPA-5), ITGA2 (integrin, alpha 2 [CD49B, alpha 2 subunit of VLA-2 receptor] [GPIa]) (eg, neonatal alloimmune thrombocytopenia [NAIT], post-transfusion purpura), HPA-5a/b (K505E) Human Platelet Antigen 6 genotyping (HPA-6w), ITGB3 (integrin, beta 3 [platelet glycoprotein IIIa, antigen CD61] [GPIIIa]) (eg, neonatal alloimmune thrombocytopenia [NAIT], post-transfusion purpura), HPA-6a/b (R489Q) Human Platelet Antigen 9 genotyping (HPA-9w), ITGA2B (integrin, alpha 2b [platelet glycoprotein IIb of IIb/IIIa complex, antigen CD41] [GPIIb]) (eg, neonatal alloimmune thrombocytopenia [NAIT], post-transfusion purpura), HPA-9a/b (V837M) Human Platelet Antigen 15 genotyping (HPA-15), CD109 (CD109 molecule) (eg, neonatal alloimmune thrombocytopenia [NAIT], post-transfusion purpura), HPA-15a/b (S682Y) IL28B (interleukin 28B [interferon, lambda 3]) (eg, drug response), rs12979860 variant IVD (isovaleryl-CoA dehydrogenase) (eg, isovaleric acidemia), A282V variant LCT (lactase-phlorizin hydrolase) (eg, lactose intolerance), 13910 C&gt;T variant NEB (nebulin) (eg, nemaline myopathy 2), exon 55 deletion variant PCDH15 (protocadherin-related 15) (eg, Usher syndrome type 1F), R245X variant SERPINE1 (serpine peptidase inhibitor clade E, member 1, plasminogen activator inhibitor -1, PAI-1) (eg, thrombophilia), 4G variant SHOC2 (soc-2 suppressor of clear homolog) (eg, Noonan-like syndrome with loose anagen hair), S2G variant SLCO1B1 (solute carrier organic anion transporter family, member 1B1) (eg, adverse drug reaction), V174A variant SMN1 (survival of motor neuron 1, telomeric) (eg, spinal muscular atrophy), exon 7 deletion SRY (sex determining region Y) (eg, 46,XX testicular disorder of sex development, gonadal dysgenesis), gene analysis TOR1A (torsin family 1, member A [torsin A]) (eg, early-onset primary dystonia [DYT1]), 907_909delGAG (904_906delGAG) variant</p> |



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| Code                      | Code Description   |
| 81401                     | <p>Molecular pathology procedure, Level 2 (eg, 2-10 SNPs, 1 methylated variant, or 1 somatic variant [typically using nonsequencing target variant analysis], or detection of a dynamic mutation disorder/triplet repeat) ABCC8 (ATP-binding cassette, sub-family C [CFTR/MRP], member 8) (eg, familial hyperinsulinism), common variants (eg, c.3898-9G&gt;A [c.3992-9G&gt;A], F1388del) ABL1 (ABL proto-oncogene 1, non-receptor tyrosine kinase) (eg, acquired imatinib resistance), T315I variant ACADM (acyl-CoA dehydrogenase, C-4 to C-12 straight chain, MCAD) (eg, medium chain acyl dehydrogenase deficiency), commons variants (eg, K304E, Y42H) ADRB2 (adrenergic beta-2 receptor surface) (eg, drug metabolism), common variants (eg, G16R, Q27E) AFF2 (AF4/FMR2 family, member 2 [FMR2]) (eg, fragile X mental retardation 2 [FRAXE]), evaluation to detect abnormal (eg, expanded) alleles APOB (apolipoprotein B) (eg, familial hypercholesterolemia type B), common variants (eg, R3500Q, R3500W) APOE (apolipoprotein E) (eg, hyperlipoproteinemia type III, cardiovascular disease, Alzheimer disease), common variants (eg, *2, *3, *4) AR (androgen receptor) (eg, spinal and bulbar muscular atrophy, Kennedy disease, X chromosome inactivation), characterization of alleles (eg, expanded size or methylation status) ATN1 (atrophin 1) (eg, dentatorubral-pallidolusian atrophy), evaluation to detect abnormal (eg, expanded) alleles ATXN1 (ataxin 1) (eg, spinocerebellar ataxia), evaluation to detect abnormal (eg, expanded) alleles ATXN2 (ataxin 2) (eg, spinocerebellar ataxia), evaluation to detect abnormal (eg, expanded) alleles ATXN3 (ataxin 3) (eg, spinocerebellar ataxia, Machado-Joseph disease), evaluation to detect abnormal (eg, expanded) alleles ATXN7 (ataxin 7) (eg, spinocerebellar ataxia), evaluation to detect abnormal (eg, expanded) alleles ATXN8OS (ATXN8 opposite strand [non-protein coding]) (eg, spinocerebellar ataxia), evaluation to detect abnormal (eg, expanded) alleles ATXN10 (ataxin 10) (eg, spinocerebellar ataxia), evaluation to detect abnormal (eg, expanded) alleles CACNA1A (calcium channel, voltage-dependent, P/Q type, alpha 1A subunit) (eg, spinocerebellar ataxia), evaluation to detect abnormal (eg, expanded) alleles CFBF/MYH11 (inv(16)) (eg, acute myeloid leukemia), qualitative, and quantitative, if performed CBS (cystathionine-beta-synthase) (eg, homocystinuria, cystathionine beta-synthase deficiency), common variants (eg, I278T, G307S) CCND1/IGH (BCL1/IgH, t(11;14)) (eg, mantle cell lymphoma) translocation analysis, major breakpoint, qualitative, and quantitative, if performed CFH/ARMS2 (complement factor H/age-related maculopathy susceptibility 2) (eg, macular degeneration), common variants (eg, Y402H [CFH], A69S [ARMS2]) CNBP (CCHC-type zinc finger, nucleic acid binding protein) (eg, myotonic dystrophy type 2), evaluation to detect abnormal (eg, expanded) alleles CSTB (cystatin B [stefin B]) (eg, Unverricht-Lundborg disease), evaluation to detect abnormal (eg, expanded) alleles CYP3A4 (cytochrome P450, family 3, subfamily A, polypeptide 4) (eg, drug metabolism), common variants (eg, *2, *3, *4, *5, *6) CYP3A5 (cytochrome P450, family 3, subfamily A, polypeptide 5) (eg, drug metabolism), common variants (eg, *2, *3, *4, *5, *6) DEK/NUP214 (t(6;9)) (eg, acute myeloid leukemia), translocation analysis, qualitative, and quantitative, if performed DMPK (dystrophia myotonica-protein kinase) (eg, myotonic dystrophy, type 1), evaluation to detect abnormal (eg, expanded) alleles E2A/PBX1 (t(1;19)) (eg, acute lymphocytic leukemia), translocation analysis, qualitative, and quantitative, if performed EML4/ALK (inv(2)) (eg, non-small cell lung cancer), translocation or inversion analysis ETV6/NTRK3 (t(12;15)) (eg, congenital/infantile fibrosarcoma), translocation analysis, qualitative, and quantitative, if performed ETV6/RUNX1 (t(12;21)) (eg, acute lymphocytic leukemia), translocation analysis, qualitative, and quantitative, if performed EWSR1/ATF1 (t(12;22)) (eg, clear cell sarcoma), translocation analysis, qualitative, and quantitative, if performed EWSR1/ERG (t(21;22)) (eg, Ewing sarcoma/peripheral neuroectodermal tumor), translocation analysis, qualitative, and quantitative, if performed EWSR1/FLI1 (t(11;22)) (eg, Ewing sarcoma/peripheral neuroectodermal tumor), translocation analysis, qualitative, and quantitative, if performed EWSR1/WT1 (t(11;22)) (eg, desmoplastic small round cell tumor), translocation analysis, qualitative, and quantitative, if performed F11 (coagulation factor XI) (eg, coagulation disorder), common variants (eg, E117X [Type II], F283L [Type III], IVS14del14, and IVS14+1G&gt;A [Type I]) FGFR3 (fibroblast growth factor receptor 3) (eg, achondroplasia, hypochondroplasia), common variants (eg, 1138G&gt;A, 1138G&gt;C, 1620C&gt;A, 1620C&gt;G)</p> |

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|                           | <p>FIP1L1/PDGFR (del[4q12]) (eg, imatinib-sensitive chronic eosinophilic leukemia), qualitative, and quantitative, if performed FLG (filaggrin) (eg, ichthyosis vulgaris), common variants (eg, R501X, 2282del4, R2447X, S3247X, 3702delG) FOXO1/PAX3 (t(2;13)) (eg, alveolar rhabdomyosarcoma), translocation analysis, qualitative, and quantitative, if performed FOXO1/PAX7 (t(1;13)) (eg, alveolar rhabdomyosarcoma), translocation analysis, qualitative, and quantitative, if performed FUS/DDIT3 (t(12;16)) (eg, myxoid liposarcoma), translocation analysis, qualitative, and quantitative, if performed FXN (frataxin) (eg, Friedreich ataxia), evaluation to detect abnormal (expanded) alleles GALC (galactosylceramidase) (eg, Krabbe disease), common variants (eg, c.857G&gt;A, 30-kb deletion) GALT (galactose-1-phosphate uridylyltransferase) (eg, galactosemia), common variants (eg, Q188R, S135L, K285N, T138M, L195P, Y209C, IVS2-2A&gt;G, P171S, del5kb, N314D, L218L/N314D) H19 (imprinted maternally expressed transcript [non-protein coding]) (eg, Beckwith-Wiedemann syndrome), methylation analysis HBB (hemoglobin, beta) (eg, sickle cell anemia, hemoglobin C, hemoglobin E), common variants (eg, HbS, HbC, HbE) HTT (huntingtin) (eg, Huntington disease), evaluation to detect abnormal (eg, expanded) alleles IGH@/BCL2 (t(14;18)) (eg, follicular lymphoma), translocation analysis; single breakpoint (eg, major breakpoint region [MBR] or minor cluster region [mcr]), qualitative or quantitative (When both MBR and mcr breakpoints are performed, use 81402) KCNQ1OT1 (KCNQ1 overlapping transcript 1 [non-protein coding]) (eg, Beckwith-Wiedemann syndrome), methylation analysis LRRK2 (leucine-rich repeat kinase 2) (eg, Parkinson disease), common variants (eg, R1441G, G2019S, I2020T) MED12 (mediator complex subunit 12) (eg, FG syndrome type 1, Lujan syndrome), common variants (eg, R961W, N1007S) MEG3/DLK1 (maternally expressed 3 [non-protein coding]/delta-like 1 homolog [Drosophila]) (eg, intrauterine growth retardation), methylation analysis MLL/AFF1 (t(4;11)) (eg, acute lymphoblastic leukemia), translocation analysis, qualitative, and quantitative, if performed MLL/MLLT3 (t(9;11)) (eg, acute myeloid leukemia), translocation analysis, qualitative, and quantitative, if performed MT-ATP6 (mitochondrially encoded ATP synthase 6) (eg, neuropathy with ataxia and retinitis pigmentosa [NARP], Leigh syndrome), common variants (eg, m.8993T&gt;G, m.8993T&gt;C) MT-ND4, MT-ND6 (mitochondrially encoded NADH dehydrogenase 4, mitochondrially encoded NADH dehydrogenase 6) (eg, Leber hereditary optic neuropathy [LHON]), common variants (eg, m.11778G&gt;A, m.3460G&gt;A, m.14484T&gt;C) MT-ND5 (mitochondrially encoded tRNA leucine 1 [UUA/G], mitochondrially encoded NADH dehydrogenase 5) (eg, mitochondrial encephalopathy with lactic acidosis and stroke-like episodes [MELAS]), common variants (eg, m.3243A&gt;G, m.3271T&gt;C, m.3252A&gt;G, m.13513G&gt;A) MT-RNR1 (mitochondrially encoded 12S RNA) (eg, nonsyndromic hearing loss), common variants (eg, m.1555A&gt;G, m.1494C&gt;T) MT-TK (mitochondrially encoded tRNA lysine) (eg, myoclonic epilepsy with ragged-red fibers [MERRF]), common variants (eg, m.8344A&gt;G, m.8356T&gt;C) MT-TL1 (mitochondrially encoded tRNA leucine 1 [UUA/G]) (eg, diabetes and hearing loss), common variants (eg, m.3243A&gt;G, m.14709 T&gt;C) MT-TL1 MT-TS1, MT-RNR1 (mitochondrially encoded tRNA serine 1 [UCN], mitochondrially encoded 12S RNA) (eg, nonsyndromic sensorineural deafness [including aminoglycoside-induced nonsyndromic deafness]), common variants (eg, m.7445A&gt;G, m.1555A&gt;G) MUTYH (mutY homolog [E. coli]) (eg, MYH-associated polyposis), common variants (eg, Y165C, G382D) NOD2 (nucleotide-binding oligomerization domain containing 2) (eg, Crohn's disease, Blau syndrome), common variants (eg, SNP 8, SNP 12, SNP 13) NPM1/ALK (t(2;5)) (eg, anaplastic large cell lymphoma), translocation analysis PABPN1 (poly[A] binding protein, nuclear 1) (eg, oculopharyngeal muscular dystrophy), evaluation to detect abnormal (eg, expanded) alleles PAX8/PPARG (t(2;3) (q13;p25)) (eg, follicular thyroid carcinoma), translocation analysis PPP2R2B (protein phosphatase 2, regulatory subunit B, beta) (eg, spinocerebellar ataxia), evaluation to detect abnormal (eg, expanded) alleles PRSS1 (protease, serine, 1 [trypsin 1]) (eg, hereditary pancreatitis), common variants (eg, N29I, A16V, R122H) PYGM (phosphorylase, glycogen, muscle) (eg, glycogen storage disease type V, McArdle disease), common variants (eg, R50X, G205S) RUNX1/RUNX1T1 (t(8;21)) (eg, acute myeloid leukemia) translocation analysis, qualitative, and quantitative, if performed SMN1/SMN2</p> |

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|                           | (survival of motor neuron 1, telomeric/survival of motor neuron 2, centromeric) (eg, spinal muscular atrophy), dosage analysis (eg, carrier testing) (For duplication/deletion analysis of SMN1/SMN2, use 81401) SS18/SSX1 (t(X;18)) (eg, synovial sarcoma), translocation analysis, qualitative, and quantitative, if performed SS18/SSX2 (t(X;18)) (eg, synovial sarcoma), translocation analysis, qualitative, and quantitative, if performed TBP (TATA box binding protein) (eg, spinocerebellar ataxia), evaluation to detect abnormal (eg, expanded) alleles TPMT (thiopurine S-methyltransferase) (eg, drug metabolism), common variants (eg, *2, *3) TYMS (thymidylate synthetase) (eg, 5-fluorouracil/5-FU drug metabolism), tandem repeat variant VWF (von Willebrand factor) (eg, von Willebrand disease type 2N), common variants (eg, T791M, R816W, R854Q)   |
| 81402                     | Molecular pathology procedure, Level 3 (eg, >10 SNPs, 2-10 methylated variants, or 2-10 somatic variants [typically using non-sequencing target variant analysis], immunoglobulin and T-cell receptor gene rearrangements, duplication/deletion variants of 1 exon, loss of heterozygosity [LOH], uniparental disomy [UPD]) Chromosome 1p-/19q- (eg, glial tumors), deletion analysis Chromosome 18q- (eg, D18S55, D18S58, D18S61, D18S64, and D18S69) (eg, colon cancer), allelic imbalance assessment (ie, loss of heterozygosity) COL1A1/PDGFB (t(17;22)) (eg, dermatofibrosarcoma protuberans), translocation analysis, multiple breakpoints, qualitative, and quantitative, if performed CYP21A2 (cytochrome P450, family 21, subfamily A, polypeptide 2) (eg, congenital adrenal hyperplasia, 21-hydroxylase deficiency), common variants (eg, IVS2-13G, P30L, I172N, exon 6 mutation cluster [I235N, V236E, M238K], V281L, L307FfsX6, Q318X, R356W, P453S, G110VfsX21, 30-kb deletion variant) ESR1/PGR (receptor 1/progesterone receptor) ratio (eg, breast cancer) IGH@/BCL2 (t(14;18)) (eg, follicular lymphoma), translocation analysis; major breakpoint region (MBR) and minor cluster region (mcr) breakpoints, qualitative or quantitative MEFV (Mediterranean fever) (eg, familial Mediterranean fever), common variants (eg, E148Q, P369S, F479L, M680I, I692del, M694V, M694I, K695R, V726A, A744S, R761H) MPL (myeloproliferative leukemia virus oncogene, thrombopoietin receptor, TPOR) (eg, myeloproliferative disorder), common variants (eg, W515A, W515K, W515L, W515R) TRD@ (T cell antigen receptor, delta) (eg, leukemia and lymphoma), gene rearrangement analysis, evaluation to detect abnormal clonal population Uniparental disomy (UPD) (eg, Russell-Silver syndrome, Prader-Willi/Angelman syndrome), short tandem repeat (STR) analysis                                 |
| 81403                     | Molecular pathology procedure, Level 4 (eg, analysis of single exon by DNA sequence analysis, analysis of >10 amplicons using multiplex PCR in 2 or more independent reactions, mutation scanning or duplication/deletion variants of 2-5 exons) ANG (angiogenin, ribonuclease, RNase A family, 5) (eg, amyotrophic lateral sclerosis), full gene sequence ARX (aristaless-related homeobox) (eg, X-linked lissencephaly with ambiguous genitalia, X-linked mental retardation), duplication/deletion analysis CEL (carboxyl ester lipase [bile salt-stimulated lipase]) (eg, maturity-onset diabetes of the young [MODY]), targeted sequence analysis of exon 11 (eg, c.1785delC, c.1686delT) CTNNB1 (catenin [cadherin-associated protein], beta 1, 88kDa) (eg, desmoid tumors), targeted sequence analysis (eg, exon 3) DAZ/SRY (deleted in azoospermia and sex determining region Y) (eg, male infertility), common deletions (eg, AZFa, AZFb, AZFc, AZFd) DNMT3A (DNA [cytosine-5-]-methyltransferase 3 alpha) (eg, acute myeloid leukemia), targeted sequence analysis (eg, exon 23) EPCAM (epithelial cell adhesion molecule) (eg, Lynch syndrome), duplication/deletion analysis F8 (coagulation factor VIII) (eg, hemophilia A), inversion analysis, intron 1 and intron 22A F12 (coagulation factor XII [Hageman factor]) (eg, angioedema, hereditary, type III; factor XII deficiency), targeted sequence analysis of exon 9 FGFR3 (fibroblast growth factor receptor 3) (eg, isolated craniosynostosis), targeted sequence analysis (eg, exon 7) (For targeted sequence analysis of multiple FGFR3 exons, use 81404) GJB1 (gap junction protein, beta 1) (eg, Charcot-Marie-Tooth X-linked), full gene sequence GNAQ (guanine nucleotide-binding protein G[q] subunit alpha) (eg, uveal melanoma), common variants (eg, R183, Q209) HBB (hemoglobin, beta, beta-globin) (eg, beta thalassemia), |

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|                           | <p>duplication/deletion analysis Human erythrocyte antigen gene analyses (eg, SLC14A1 [Kidd blood group], BCAM [Lutheran blood group], ICAM4 [Landsteiner-Wiener blood group], SLC4A1 [Diego blood group], AQP1 [Colton blood group], ERMAP [Scianna blood group], RHCE [Rh blood group, CcEe antigens], KEL [Kell blood group], DARC [Duffy blood group], GYPA, GYPB, GYPE [MNS blood group], ART4 [Dombrock blood group]) (eg, sickle-cell disease, thalassemia, hemolytic transfusion reactions, hemolytic disease of the fetus or newborn), common variants HRAS (v-Ha-ras Harvey rat sarcoma viral oncogene homolog) (eg, Costello syndrome), exon 2 sequence IDH1 (isocitrate dehydrogenase 1 [NADP+], soluble) (eg, glioma), common exon 4 variants (eg, R132H, R132C) IDH2 (isocitrate dehydrogenase 2 [NADP+], mitochondrial) (eg, glioma), common exon 4 variants (eg, R140W, R172M) JAK2 (Janus kinase 2) (eg, myeloproliferative disorder), exon 12 sequence and exon 13 sequence, if performed KCNC3 (potassium voltage-gated channel, Shaw-related subfamily, member 3) (eg, spinocerebellar ataxia), targeted sequence analysis (eg, exon 2) KCNJ2 (potassium inwardly-rectifying channel, subfamily J, member 2) (eg, Andersen-Tawil syndrome), full gene sequence KCNJ11 (potassium inwardly-rectifying channel, subfamily J, member 11) (eg, familial hyperinsulinism), full gene sequence Killer cell immunoglobulin-like receptor (KIR) gene family (eg, hematopoietic stem cell transplantation), genotyping of KIR family genes Known familial variant not otherwise specified, for gene listed in Tier 1 or Tier 2, or identified during a genomic sequencing procedure, DNA sequence analysis, each variant exon (For a known familial variant that is considered a common variant, use specific common variant Tier 1 or Tier 2 code) MC4R (melanocortin 4 receptor) (eg, obesity), full gene sequence MICA (MHC class I polypeptide-related sequence A) (eg, solid organ transplantation), common variants (eg, *001, *002) MPL (myeloproliferative leukemia virus oncogene, thrombopoietin receptor, TPOR) (eg, myeloproliferative disorder), exon 10 sequence MT-RNR1 (mitochondrially encoded 12S RNA) (eg, nonsyndromic hearing loss), full gene sequence MT-TS1 (mitochondrially encoded tRNA serine 1) (eg, nonsyndromic hearing loss), full gene sequence NDP (Norrie disease [pseudoglioma]) (eg, Norrie disease), duplication/deletion analysis NHLRC1 (NHL repeat containing 1) (eg, progressive myoclonus epilepsy), full gene sequence PHOX2B (paired-like homeobox 2b) (eg, congenital central hypoventilation syndrome), duplication/deletion analysis PLN (phospholamban) (eg, dilated cardiomyopathy, hypertrophic cardiomyopathy), full gene sequence RHD (Rh blood group, D antigen) (eg, hemolytic disease of the fetus and newborn, Rh maternal/fetal compatibility), deletion analysis (eg, exons 4, 5, and 7, pseudogene) RHD (Rh blood group, D antigen) (eg, hemolytic disease of the fetus and newborn, Rh maternal/fetal compatibility), deletion analysis (eg, exons 4, 5, and 7, pseudogene), performed on cell-free fetal DNA in maternal blood (For human erythrocyte gene analysis of RHD, use a separate unit of 81403) SH2D1A (SH2 domain containing 1A) (eg, X-linked lymphoproliferative syndrome), duplication/deletion analysis SMN1 (survival of motor neuron 1, telomeric) (eg, spinal muscular atrophy), known familial sequence variant(s) TWIST1 (twist homolog 1 [Drosophila]) (eg, Saethre-Chotzen syndrome), duplication/deletion analysis UBA1 (ubiquitin-like modifier activating enzyme 1) (eg, spinal muscular atrophy, X-linked), targeted sequence analysis (eg, exon 15) VHL (von Hippel-Lindau tumor suppressor) (eg, von Hippel-Lindau familial cancer syndrome), deletion/duplication analysis VWF (von Willebrand factor) (eg, von Willebrand disease types 2A, 2B, 2M), targeted sequence analysis (eg, exon 28)</p> |



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| 81404                     | <p>Molecular pathology procedure, Level 5 (eg, analysis of 2-5 exons by DNA sequence analysis, mutation scanning or duplication/deletion variants of 6-10 exons, or characterization of a dynamic mutation disorder/triplet repeat by Southern blot analysis) ACADS (acyl-CoA dehydrogenase, C-2 to C-3 short chain) (eg, short chain acyl-CoA dehydrogenase deficiency), targeted sequence analysis (eg, exons 5 and 6) AFF2 (AF4/FMR2 family, member 2 [FMR2]) (eg, fragile X mental retardation 2 [FRAXE]), characterization of alleles (eg, expanded size and methylation status) AQP2 (aquaporin 2 [collecting duct]) (eg, nephrogenic diabetes insipidus), full gene sequence ARX (aristaless related homeobox) (eg, X-linked lissencephaly with ambiguous genitalia, X-linked mental retardation), full gene sequence AVPR2 (arginine vasopressin receptor 2) (eg, nephrogenic diabetes insipidus), full gene sequence BBS10 (Bardet-Biedl syndrome 10) (eg, Bardet-Biedl syndrome), full gene sequence BTD (biotinidase) (eg, biotinidase deficiency), full gene sequence C10orf2 (chromosome 10 open reading frame 2) (eg, mitochondrial DNA depletion syndrome), full gene sequence CAV3 (caveolin 3) (eg, CAV3-related distal myopathy, limb-girdle muscular dystrophy type 1C), full gene sequence CD40LG (CD40 ligand) (eg, X-linked hyper IgM syndrome), full gene sequence CDKN2A (cyclin-dependent kinase inhibitor 2A) (eg, CDKN2A-related cutaneous malignant melanoma, familial atypical mole-malignant melanoma syndrome), full gene sequence CLRN1 (clarin 1) (eg, Usher syndrome, type 3), full gene sequence COX6B1 (cytochrome c oxidase subunit VIb polypeptide 1) (eg, mitochondrial respiratory chain complex IV deficiency), full gene sequence CPT2 (carnitine palmitoyltransferase 2) (eg, carnitine palmitoyltransferase II deficiency), full gene sequence CRX (cone-rod homeobox) (eg, cone-rod dystrophy 2, Leber congenital amaurosis), full gene sequence CSTB (cystatin B [stefin B]) (eg, Unverricht-Lundborg disease), full gene sequence CYP1B1 (cytochrome P450, family 1, subfamily B, polypeptide 1) (eg, primary congenital glaucoma), full gene sequence DMPK (dystrophia myotonica-protein kinase) (eg, myotonic dystrophy type 1), characterization of abnormal (eg, expanded) alleles EGR2 (early growth response 2) (eg, Charcot-Marie-Tooth), full gene sequence EMD (emerin) (eg, Emery-Dreifuss muscular dystrophy), duplication/deletion analysis EPM2A (epilepsy, progressive myoclonus type 2A, Lafora disease [laforin]) (eg, progressive myoclonus epilepsy), full gene sequence FGF23 (fibroblast growth factor 23) (eg, hypophosphatemic rickets), full gene sequence FGFR2 (fibroblast growth factor receptor 2) (eg, craniosynostosis, Apert syndrome, Crouzon syndrome), targeted sequence analysis (eg, exons 8, 10) FGFR3 (fibroblast growth factor receptor 3) (eg, achondroplasia, hypochondroplasia), targeted sequence analysis (eg, exons 8, 11, 12, 13) FHL1 (four and a half LIM domains 1) (eg, Emery-Dreifuss muscular dystrophy), full gene sequence FKRP (fukutin related protein) (eg, congenital muscular dystrophy type 1C [MDC1C], limb-girdle muscular dystrophy [LGMD] type 2I), full gene sequence FOXP1 (forkhead box P1) (eg, Rett syndrome), full gene sequence FSHMD1A (facioscapulohumeral muscular dystrophy 1A) (eg, facioscapulohumeral muscular dystrophy), evaluation to detect abnormal (eg, deleted) alleles FSHMD1A (facioscapulohumeral muscular dystrophy 1A) (eg, facioscapulohumeral muscular dystrophy), characterization of haplotype(s) (ie, chromosome 4A and 4B haplotypes) FXN (frataxin) (eg, Friedreich ataxia), full gene sequence GH1 (growth hormone 1) (eg, growth hormone deficiency), full gene sequence GP1BB (glycoprotein Ib [platelet], beta polypeptide) (eg, Bernard-Soulier syndrome type B), full gene sequence HBA1/HBA2 (alpha globin 1 and alpha globin 2) (eg, alpha thalassemia), duplication/deletion analysis (For common deletion variants of alpha globin 1 and alpha globin 2 genes, use 81257) HBB (hemoglobin, beta, Beta-Globin) (eg, thalassemia), full gene sequence HNF1B (HNF1 homeobox B) (eg, maturity-onset diabetes of the young [MODY]), duplication/deletion analysis HRAS (v-Ha-ras Harvey rat sarcoma viral oncogene homolog) (eg, Costello syndrome), full gene sequence HSD3B2 (hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 2) (eg, 3-beta-hydroxysteroid dehydrogenase type II deficiency), full gene sequence HSD11B2 (hydroxysteroid [11-beta] dehydrogenase 2) (eg, mineralocorticoid excess syndrome), full gene sequence HSPB1 (heat shock 27kDa protein 1) (eg, Charcot-Marie-Tooth disease), full gene sequence INS (insulin) (eg, diabetes mellitus), full gene sequence KCNJ1 (potassium inwardly-rectifying channel,</p> |

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|                           | <p>subfamily J, member 1) (eg, Bartter syndrome), full gene sequence KCNJ10 (potassium inwardly-rectifying channel, subfamily J, member 10) (eg, SeSAME syndrome, EAST syndrome, sensorineural hearing loss), full gene sequence LITAF (lipopolysaccharide-induced TNF factor) (eg, Charcot-Marie-Tooth), full gene sequence MEFV (Mediterranean fever) (eg, familial Mediterranean fever), full gene sequence MEN1 (multiple endocrine neoplasia I) (eg, multiple endocrine neoplasia type 1, Wermer syndrome), duplication/deletion analysis MMACHC (methylmalonic aciduria [cobalamin deficiency] cblC type, with homocystinuria) (eg, methylmalonic acidemia and homocystinuria), full gene sequence MPV17 (Mpv17 mitochondrial inner membrane protein) (eg, mitochondrial DNA depletion syndrome), duplication/deletion analysis NDP (Norrie disease [pseudoglioma]) (eg, Norrie disease), full gene sequence NDUFA1 (NADH dehydrogenase [ubiquinone] 1 alpha subcomplex, 1, 7.5kDa) (eg, Leigh syndrome, mitochondrial complex I deficiency), full gene sequence NDUFA2 (NADH dehydrogenase [ubiquinone] 1 alpha subcomplex, assembly factor 2) (eg, Leigh syndrome, mitochondrial complex I deficiency), full gene sequence NDUFS4 (NADH dehydrogenase [ubiquinone] Fe-S protein 4, 18kDa [NADH-coenzyme Q reductase]) (eg, Leigh syndrome, mitochondrial complex I deficiency), full gene sequence NIPA1 (non-imprinted in Prader-Willi/Angelman syndrome 1) (eg, spastic paraplegia), full gene sequence NLGN4X (neuroligin 4, X-linked) (eg, autism spectrum disorders), duplication/deletion analysis NPC2 (Niemann-Pick disease, type C2 [epididymal secretory protein E1]) (eg, Niemann-Pick disease type C2), full gene sequence NROB1 (nuclear receptor subfamily 0, group B, member 1) (eg, congenital adrenal hypoplasia), full gene sequence PDX1 (pancreatic and duodenal homeobox 1) (eg, maturity-onset diabetes of the young [MODY]), full gene sequence PHOX2B (paired-like homeobox 2b) (eg, congenital central hypoventilation syndrome), full gene sequence PIK3CA (phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit alpha) (eg, colorectal cancer), targeted sequence analysis (eg, exons 9 and 20) PLP1 (proteolipid protein 1) (eg, Pelizaeus-Merzbacher disease, spastic paraplegia), duplication/deletion analysis PQBP1 (polyglutamine binding protein 1) (eg, Renpenning syndrome), duplication/deletion analysis PRNP (prion protein) (eg, genetic prion disease), full gene sequence PROP1 (PROP paired-like homeobox 1) (eg, combined pituitary hormone deficiency), full gene sequence PRPH2 (peripherin 2 [retinal degeneration, slow]) (eg, retinitis pigmentosa), full gene sequence PRSS1 (protease, serine, 1 [trypsin 1]) (eg, hereditary pancreatitis), full gene sequence RAF1 (v-raf-1 murine leukemia viral oncogene homolog 1) (eg, LEOPARD syndrome), targeted sequence analysis (eg, exons 7, 12, 14, 17) RET (ret proto-oncogene) (eg, multiple endocrine neoplasia, type 2B and familial medullary thyroid carcinoma), common variants (eg, M918T, 2647_2648delinsTT, A883F) RHO (rhodopsin) (eg, retinitis pigmentosa), full gene sequence RP1 (retinitis pigmentosa 1) (eg, retinitis pigmentosa), full gene sequence SCN1B (sodium channel, voltage-gated, type I, beta) (eg, Brugada syndrome), full gene sequence SCO2 (SCO cytochrome oxidase deficient homolog 2 [SCO1L]) (eg, mitochondrial respiratory chain complex IV deficiency), full gene sequence SDHC (succinate dehydrogenase complex, subunit C, integral membrane protein, 15kDa) (eg, hereditary paraganglioma-pheochromocytoma syndrome), duplication/deletion analysis SDHD (succinate dehydrogenase complex, subunit D, integral membrane protein) (eg, hereditary paraganglioma), full gene sequence SGGG (sarcoglycan, gamma [35kDa dystrophin-associated glycoprotein]) (eg, limb-girdle muscular dystrophy), duplication/deletion analysis SH2D1A (SH2 domain containing 1A) (eg, X-linked lymphoproliferative syndrome), full gene sequence SLC16A2 (solute carrier family 16, member 2 [thyroid hormone transporter]) (eg, specific thyroid hormone cell transporter deficiency, Allan-Herndon-Dudley syndrome), duplication/deletion analysis SLC25A20 (solute carrier family 25 [carnitine/acylcarnitine translocase], member 20) (eg, carnitine-acylcarnitine translocase deficiency), duplication/deletion analysis SLC25A4 (solute carrier family 25 [mitochondrial carrier; adenine nucleotide translocator], member 4) (eg, progressive external ophthalmoplegia), full gene sequence SOD1 (superoxide dismutase 1, soluble) (eg, amyotrophic lateral sclerosis), full gene sequence SPINK1 (serine peptidase inhibitor, Kazal type 1) (eg, hereditary pancreatitis), full gene sequence STK11 (serine/threonine kinase 11) (eg, Peutz-Jeghers</p> |



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|                           | <p>syndrome), duplication/deletion analysis TACO1 (translational activator of mitochondrial encoded cytochrome c oxidase I) (eg, mitochondrial respiratory chain complex IV deficiency), full gene sequence THAP1 (THAP domain containing, apoptosis associated protein 1) (eg, torsion dystonia), full gene sequence TOR1A (torsin family 1, member A [torsin A]) (eg, torsion dystonia), full gene sequence TP53 (tumor protein 53) (eg, tumor samples), targeted sequence analysis of 2-5 exons TTPA (tocopherol [alpha] transfer protein) (eg, ataxia), full gene sequence TTR (transthyretin) (eg, familial transthyretin amyloidosis), full gene sequence TWIST1 (twist homolog 1 [Drosophila]) (eg, Saethre-Chotzen syndrome), full gene sequence TYR (tyrosinase [oculocutaneous albinism IA]) (eg, oculocutaneous albinism IA), full gene sequence USH1G (Usher syndrome 1G [autosomal recessive]) (eg, Usher syndrome, type 1), full gene sequence VHL (von Hippel-Lindau tumor suppressor) (eg, von Hippel-Lindau familial cancer syndrome), full gene sequence VWF (von Willebrand factor) (eg, von Willebrand disease type 1C), targeted sequence analysis (eg, exons 26, 27, 37) ZEB2 (zinc finger E-box binding homeobox 2) (eg, Mowat-Wilson syndrome), duplication/deletion analysis ZNF41 (zinc finger protein 41) (eg, X-linked mental retardation 89), full gene sequence</p>  |
| 81405                     | <p>Molecular pathology procedure, Level 6 (eg, analysis of 6-10 exons by DNA sequence analysis, mutation scanning or duplication/deletion variants of 11-25 exons, regionally targeted cytogenomic array analysis) ABCD1 (ATP-binding cassette, sub-family D [ALD], member 1) (eg, adrenoleukodystrophy), full gene sequence ACADS (acyl-CoA dehydrogenase, C-2 to C-3 short chain) (eg, short chain acyl-CoA dehydrogenase deficiency), full gene sequence ACTA2 (actin, alpha 2, smooth muscle, aorta) (eg, thoracic aortic aneurysms and aortic dissections), full gene sequence ACTC1 (actin, alpha, cardiac muscle 1) (eg, familial hypertrophic cardiomyopathy), full gene sequence ANKRD1 (ankyrin repeat domain 1) (eg, dilated cardiomyopathy), full gene sequence APTX (aprataxin) (eg, ataxia with oculomotor apraxia 1), full gene sequence AR (androgen receptor) (eg, androgen insensitivity syndrome), full gene sequence ARSA (arylsulfatase A) (eg, arylsulfatase A deficiency), full gene sequence BCKDHA (branched chain keto acid dehydrogenase E1, alpha polypeptide) (eg, maple syrup urine disease, type 1A), full gene sequence BCS1L (BCS1-like [S. cerevisiae]) (eg, Leigh syndrome, mitochondrial complex III deficiency, GRACILE syndrome), full gene sequence BMPR2 (bone morphogenetic protein receptor, type II [serine/threonine kinase]) (eg, heritable pulmonary arterial hypertension), duplication/deletion analysis CASQ2 (calsequestrin 2 [cardiac muscle]) (eg, catecholaminergic polymorphic ventricular tachycardia), full gene sequence CASR (calcium-sensing receptor) (eg, hypocalcemia), full gene sequence CDKL5 (cyclin-dependent kinase-like 5) (eg, early infantile epileptic encephalopathy), duplication/deletion analysis CHRNA4 (cholinergic receptor, nicotinic, alpha 4) (eg, nocturnal frontal lobe epilepsy), full gene sequence CHRNB2 (cholinergic receptor, nicotinic, beta 2 [neuronal]) (eg, nocturnal frontal lobe epilepsy), full gene sequence COX10 (COX10 homolog, cytochrome c oxidase assembly protein) (eg, mitochondrial respiratory chain complex IV deficiency), full gene sequence COX15 (COX15 homolog, cytochrome c oxidase assembly protein) (eg, mitochondrial respiratory chain complex IV deficiency), full gene sequence CYP11B1 (cytochrome P450, family 11, subfamily B, polypeptide 1) (eg, congenital adrenal hyperplasia), full gene sequence CYP17A1 (cytochrome P450, family 17, subfamily A, polypeptide 1) (eg, congenital adrenal hyperplasia), full gene sequence CYP21A2 (cytochrome P450, family 21, subfamily A, polypeptide 2) (eg, steroid 21-hydroxylase isoform, congenital adrenal hyperplasia), full gene sequence Cytogenomic constitutional targeted microarray analysis of chromosome 22q13 by interrogation of genomic regions for copy number and single nucleotide polymorphism (SNP) variants for chromosomal abnormalities (When performing genome-wide cytogenomic constitutional microarray analysis, see 81228, 81229) (Do not report analyte-specific molecular pathology procedures separately when the specific analytes are included as part of the microarray analysis of chromosome 22q13) (Do not report 88271 when performing cytogenomic microarray analysis) DBT (dihydrolipoamide branched chain transacylase E2) (eg, maple syrup urine disease, type 2), duplication/deletion analysis DCX (doublecortin) (eg, X-linked lissencephaly), full gene</p> |

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|                           | <p>sequence DES (desmin) (eg, myofibrillar myopathy), full gene sequence DFNB59 (deafness, autosomal recessive 59) (eg, autosomal recessive nonsyndromic hearing impairment), full gene sequence DGUOK (deoxyguanosine kinase) (eg, hepatocerebral mitochondrial DNA depletion syndrome), full gene sequence DHCR7 (7-dehydrocholesterol reductase) (eg, Smith-Lemli-Opitz syndrome), full gene sequence EIF2B2 (eukaryotic translation initiation factor 2B, subunit 2 beta, 39kDa) (eg, leukoencephalopathy with vanishing white matter), full gene sequence EMD (emerin) (eg, Emery-Dreifuss muscular dystrophy), full gene sequence ENG (endoglin) (eg, hereditary hemorrhagic telangiectasia, type 1), duplication/deletion analysis EYA1 (eyes absent homolog 1 [Drosophila]) (eg, branchio-oto-renal [BOR] spectrum disorders), duplication/deletion analysis F9 (coagulation factor IX) (eg, hemophilia B), full gene sequence FGFR1 (fibroblast growth factor receptor 1) (eg, Kallmann syndrome 2), full gene sequence FH (fumarate hydratase) (eg, fumarate hydratase deficiency, hereditary leiomyomatosis with renal cell cancer), full gene sequence FKTN (fukutin) (eg, limb-girdle muscular dystrophy [LGMD] type 2M or 2L), full gene sequence FTSJ1 (FtsJ RNA methyltransferase homolog 1 [E. coli]) (eg, X-linked mental retardation 9), duplication/deletion analysis GABRG2 (gamma-aminobutyric acid [GABA] A receptor, gamma 2) (eg, generalized epilepsy with febrile seizures), full gene sequence GCH1 (GTP cyclohydrolase 1) (eg, autosomal dominant dopa-responsive dystonia), full gene sequence GDAP1 (ganglioside-induced differentiation-associated protein 1) (eg, Charcot-Marie-Tooth disease), full gene sequence GFAP (glial fibrillary acidic protein) (eg, Alexander disease), full gene sequence GHR (growth hormone receptor) (eg, Laron syndrome), full gene sequence GHRHR (growth hormone releasing hormone receptor) (eg, growth hormone deficiency), full gene sequence GLA (galactosidase, alpha) (eg, Fabry disease), full gene sequence HBA1/HBA2 (alpha globin 1 and alpha globin 2) (eg, thalassemia), full gene sequence HNF1A (HNF1 homeobox A) (eg, maturity-onset diabetes of the young [MODY]), full gene sequence HNF1B (HNF1 homeobox B) (eg, maturity-onset diabetes of the young [MODY]), full gene sequence HTRA1 (HtrA serine peptidase 1) (eg, macular degeneration), full gene sequence IDS (iduronate 2-sulfatase) (eg, mucopolysacchridosis, type II), full gene sequence IL2RG (interleukin 2 receptor, gamma) (eg, X-linked severe combined immunodeficiency), full gene sequence ISPD (isoprenoid synthase domain containing) (eg, muscle-eye-brain disease, Walker-Warburg syndrome), full gene sequence KRAS (Kirsten rat sarcoma viral oncogene homolog) (eg, Noonan syndrome), full gene sequence LAMP2 (lysosomal-associated membrane protein 2) (eg, Danon disease), full gene sequence LDLR (low density lipoprotein receptor) (eg, familial hypercholesterolemia), duplication/deletion analysis MEN1 (multiple endocrine neoplasia I) (eg, multiple endocrine neoplasia type 1, Wermer syndrome), full gene sequence MMAA (methylmalonic aciduria [cobalamine deficiency] type A) (eg, MMAA-related methylmalonic acidemia), full gene sequence MMAB (methylmalonic aciduria [cobalamine deficiency] type B) (eg, MMAA-related methylmalonic acidemia), full gene sequence MPI (mannose phosphate isomerase) (eg, congenital disorder of glycosylation 1b), full gene sequence MPV17 (MpV17 mitochondrial inner membrane protein) (eg, mitochondrial DNA depletion syndrome), full gene sequence MPZ (myelin protein zero) (eg, Charcot-Marie-Tooth), full gene sequence MTM1 (myotubularin 1) (eg, X-linked centronuclear myopathy), duplication/deletion analysis MYL2 (myosin, light chain 2, regulatory, cardiac, slow) (eg, familial hypertrophic cardiomyopathy), full gene sequence MYL3 (myosin, light chain 3, alkali, ventricular, skeletal, slow) (eg, familial hypertrophic cardiomyopathy), full gene sequence MYOT (myotilin) (eg, limb-girdle muscular dystrophy), full gene sequence NDUFS7 (NADH dehydrogenase [ubiquinone] Fe-S protein 7, 20kDa [NADH-coenzyme Q reductase]) (eg, Leigh syndrome, mitochondrial complex I deficiency), full gene sequence NDUFS8 (NADH dehydrogenase [ubiquinone] Fe-S protein 8, 23kDa [NADH-coenzyme Q reductase]) (eg, Leigh syndrome, mitochondrial complex I deficiency), full gene sequence NDUFV1 (NADH dehydrogenase [ubiquinone] flavoprotein 1, 51kDa) (eg, Leigh syndrome, mitochondrial complex I deficiency), full gene sequence NEFL (neurofilament, light polypeptide) (eg, Charcot-Marie-Tooth), full gene sequence NF2 (neurofibromin 2 [merlin]) (eg, neurofibromatosis, type 2), duplication/deletion</p> |

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| Code                      | Code Description  |
|                           | <p>analysis NLGN3 (neuroligin 3) (eg, autism spectrum disorders), full gene sequence NLGN4X (neuroligin 4, X-linked) (eg, autism spectrum disorders), full gene sequence NPHP1 (nephronophthisis 1 [juvenile]) (eg, Joubert syndrome), deletion analysis, and duplication analysis, if performed NPHS2 (nephrosis 2, idiopathic, steroid-resistant [podocin]) (eg, steroid-resistant nephrotic syndrome), full gene sequence NSD1 (nuclear receptor binding SET domain protein 1) (eg, Sotos syndrome), duplication/deletion analysis OTC (ornithine carbamoyltransferase) (eg, ornithine transcarbamylase deficiency), full gene sequence PAFAH1B1 (platelet-activating factor acetylhydrolase 1b, regulatory subunit 1 [45kDa]) (eg, lissencephaly, Miller-Dieker syndrome), duplication/deletion analysis PARK2 (Parkinson protein 2, E3 ubiquitin protein ligase [parkin]) (eg, Parkinson disease), duplication/deletion analysis PCCA (propionyl CoA carboxylase, alpha polypeptide) (eg, propionic acidemia, type 1), duplication/deletion analysis PCDH19 (protocadherin 19) (eg, epileptic encephalopathy), full gene sequence PDHA1 (pyruvate dehydrogenase [lipoamide] alpha 1) (eg, lactic acidosis), duplication/deletion analysis PDHB (pyruvate dehydrogenase [lipoamide] beta) (eg, lactic acidosis), full gene sequence PINK1 (PTEN induced putative kinase 1) (eg, Parkinson disease), full gene sequence PLP1 (proteolipid protein 1) (eg, Pelizaeus-Merzbacher disease, spastic paraplegia), full gene sequence POU1F1 (POU class 1 homeobox 1) (eg, combined pituitary hormone deficiency), full gene sequence PRX (periaxin) (eg, Charcot-Marie-Tooth disease), full gene sequence PQBP1 (polyglutamine binding protein 1) (eg, Renpenning syndrome), full gene sequence PSEN1 (presenilin 1) (eg, Alzheimer disease), full gene sequence RAB7A (RAB7A, member RAS oncogene family) (eg, Charcot-Marie-Tooth disease), full gene sequence RAI1 (retinoic acid induced 1) (eg, Smith-Magenis syndrome), full gene sequence REEP1 (receptor accessory protein 1) (eg, spastic paraplegia), full gene sequence RET (ret proto-oncogene) (eg, multiple endocrine neoplasia, type 2A and familial medullary thyroid carcinoma), targeted sequence analysis (eg, exons 10, 11, 13-16) RPS19 (ribosomal protein S19) (eg, Diamond-Blackfan anemia), full gene sequence RRM2B (ribonucleotide reductase M2 B [TP53 inducible]) (eg, mitochondrial DNA depletion), full gene sequence SCO1 (SCO cytochrome oxidase deficient homolog 1) (eg, mitochondrial respiratory chain complex IV deficiency), full gene sequence SDHB (succinate dehydrogenase complex, subunit B, iron sulfur) (eg, hereditary paraganglioma), full gene sequence SDHC (succinate dehydrogenase complex, subunit C, integral membrane protein, 15kDa) (eg, hereditary paraganglioma-pheochromocytoma syndrome), full gene sequence SGCA (sarcoglycan, alpha [50kDa dystrophin-associated glycoprotein]) (eg, limb-girdle muscular dystrophy), full gene sequence SGCB (sarcoglycan, beta [43kDa dystrophin-associated glycoprotein]) (eg, limb-girdle muscular dystrophy), full gene sequence SGCD (sarcoglycan, delta [35kDa dystrophin-associated glycoprotein]) (eg, limb-girdle muscular dystrophy), full gene sequence SGCE (sarcoglycan, epsilon) (eg, myoclonic dystonia), duplication/deletion analysis SGCG (sarcoglycan, gamma [35kDa dystrophin-associated glycoprotein]) (eg, limb-girdle muscular dystrophy), full gene sequence SHOC2 (soc-2 suppressor of clear homolog) (eg, Noonan-like syndrome with loose anagen hair), full gene sequence SHOX (short stature homeobox) (eg, Langer mesomelic dysplasia), full gene sequence SIL1 (SIL1 homolog, endoplasmic reticulum chaperone [S. cerevisiae]) (eg, ataxia), full gene sequence SLC2A1 (solute carrier family 2 [facilitated glucose transporter], member 1) (eg, glucose transporter type 1 [GLUT 1] deficiency syndrome), full gene sequence SLC16A2 (solute carrier family 16, member 2 [thyroid hormone transporter]) (eg, specific thyroid hormone cell transporter deficiency, Allan-Herndon-Dudley syndrome), full gene sequence SLC22A5 (solute carrier family 22 [organic cation/carnitine transporter], member 5) (eg, systemic primary carnitine deficiency), full gene sequence SLC25A20 (solute carrier family 25 [carnitine/acylcarnitine translocase], member 20) (eg, carnitine-acylcarnitine translocase deficiency), full gene sequence SMAD4 (SMAD family member 4) (eg, hemorrhagic telangiectasia syndrome, juvenile polyposis), duplication/deletion analysis SMN1 (survival of motor neuron 1, telomeric) (eg, spinal muscular atrophy), full gene sequence SPAST (spastin) (eg, spastic paraplegia), duplication/deletion analysis SPG7 (spastic paraplegia 7 [pure and complicated autosomal recessive]) (eg, spastic paraplegia), duplication/deletion analysis SPRED1 (sprouty-related, EVH1 domain</p> |

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|                           | <p>containing 1) (eg, Legius syndrome), full gene sequence STAT3 (signal transducer and activator of transcription 3 [acute-phase response factor]) (eg, autosomal dominant hyper-IgE syndrome), targeted sequence analysis (eg, exons 12, 13, 14, 16, 17, 20, 21) STK11 (serine/threonine kinase 11) (eg, Peutz-Jeghers syndrome), full gene sequence SURF1 (surfeit 1) (eg, mitochondrial respiratory chain complex IV deficiency), full gene sequence TARDBP (TAR DNA binding protein) (eg, amyotrophic lateral sclerosis), full gene sequence TBX5 (T-box 5) (eg, Holt-Oram syndrome), full gene sequence TCF4 (transcription factor 4) (eg, Pitt-Hopkins syndrome), duplication/deletion analysis TGFBR1 (transforming growth factor, beta receptor 1) (eg, Marfan syndrome), full gene sequence TGFBR2 (transforming growth factor, beta receptor 2) (eg, Marfan syndrome), full gene sequence THRB (thyroid hormone receptor, beta) (eg, thyroid hormone resistance, thyroid hormone beta receptor deficiency), full gene sequence or targeted sequence analysis of &gt;5 exons TK2 (thymidine kinase 2, mitochondrial) (eg, mitochondrial DNA depletion syndrome), full gene sequence TNNC1 (troponin C type 1 [slow]) (eg, hypertrophic cardiomyopathy or dilated cardiomyopathy), full gene sequence TNNI3 (troponin I, type 3 [cardiac]) (eg, familial hypertrophic cardiomyopathy), full gene sequence TP53 (tumor protein 53) (eg, Li-Fraumeni syndrome, tumor samples), full gene sequence or targeted sequence analysis of &gt;5 exons TPM1 (tropomyosin 1 [alpha]) (eg, familial hypertrophic cardiomyopathy), full gene sequence TSC1 (tuberous sclerosis 1) (eg, tuberous sclerosis), duplication/deletion analysis TYMP (thymidine phosphorylase) (eg, mitochondrial DNA depletion syndrome), full gene sequence VWF (von Willebrand factor) (eg, von Willebrand disease type 2N), targeted sequence analysis (eg, exons 18-20, 23-25) WT1 (Wilms tumor 1) (eg, Denys-Drash syndrome, familial Wilms tumor), full gene sequence ZEB2 (zinc finger E-box binding homeobox 2) (eg, Mowat-Wilson syndrome), full gene sequence</p> |



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| 81406                     | <p>Molecular pathology procedure, Level 7 (eg, analysis of 11-25 exons by DNA sequence analysis, mutation scanning or duplication/deletion variants of 26-50 exons, cytogenomic array analysis for neoplasia)</p> <p>ACADVL (acyl-CoA dehydrogenase, very long chain) (eg, very long chain acyl-coenzyme A dehydrogenase deficiency), full gene sequence ACTN4 (actinin, alpha 4) (eg, focal segmental glomerulosclerosis), full gene sequence AFG3L2 (AFG3 ATPase family gene 3-like 2 [S. cerevisiae]) (eg, spinocerebellar ataxia), full gene sequence AIRE (autoimmune regulator) (eg, autoimmune polyendocrinopathy syndrome type 1), full gene sequence ALDH7A1 (aldehyde dehydrogenase 7 family, member A1) (eg, pyridoxine-dependent epilepsy), full gene sequence ANO5 (anoctamin 5) (eg, limb-girdle muscular dystrophy), full gene sequence APP (amyloid beta [A4] precursor protein) (eg, Alzheimer disease), full gene sequence ASS1 (argininosuccinate synthase 1) (eg, citrullinemia type I), full gene sequence ATL1 (atlastin GTPase 1) (eg, spastic paraplegia), full gene sequence ATP1A2 (ATPase, Na<sup>+</sup>/K<sup>+</sup> transporting, alpha 2 polypeptide) (eg, familial hemiplegic migraine), full gene sequence ATP7B (ATPase, Cu<sup>++</sup> transporting, beta polypeptide) (eg, Wilson disease), full gene sequence BBS1 (Bardet-Biedl syndrome 1) (eg, Bardet-Biedl syndrome), full gene sequence BBS2 (Bardet-Biedl syndrome 2) (eg, Bardet-Biedl syndrome), full gene sequence BCKDHB (branched-chain keto acid dehydrogenase E1, beta polypeptide) (eg, maple syrup urine disease, type 1B), full gene sequence BEST1 (bestrophin 1) (eg, vitelliform macular dystrophy), full gene sequence BMPR2 (bone morphogenetic protein receptor, type II [serine/threonine kinase]) (eg, heritable pulmonary arterial hypertension), full gene sequence BRAF (B-Raf proto-oncogene, serine/threonine kinase) (eg, Noonan syndrome), full gene sequence BSCL2 (Berardinelli-Seip congenital lipodystrophy 2 [seipin]) (eg, Berardinelli-Seip congenital lipodystrophy), full gene sequence BTK (Bruton agammaglobulinemia tyrosine kinase) (eg, X-linked agammaglobulinemia), full gene sequence CACNB2 (calcium channel, voltage-dependent, beta 2 subunit) (eg, Brugada syndrome), full gene sequence CAPN3 (calpain 3) (eg, limb-girdle muscular dystrophy [LGMD] type 2A, calpainopathy), full gene sequence CBS (cystathionine-beta-synthase) (eg, homocystinuria, cystathionine beta-synthase deficiency), full gene sequence CDH1 (cadherin 1, type 1, E-cadherin [epithelial]) (eg, hereditary diffuse gastric cancer), full gene sequence CDKL5 (cyclin-dependent kinase-like 5) (eg, early infantile epileptic encephalopathy), full gene sequence CLCN1 (chloride channel 1, skeletal muscle) (eg, myotonia congenita), full gene sequence CLCNKB (chloride channel, voltage-sensitive Kb) (eg, Bartter syndrome 3 and 4b), full gene sequence CNTNAP2 (contactin-associated protein-like 2) (eg, Pitt-Hopkins-like syndrome 1), full gene sequence COL6A2 (collagen, type VI, alpha 2) (eg, collagen type VI-related disorders), duplication/deletion analysis CPT1A (carnitine palmitoyltransferase 1A [liver]) (eg, carnitine palmitoyltransferase 1A [CPT1A] deficiency), full gene sequence CRB1 (crumbs homolog 1 [Drosophila]) (eg, Leber congenital amaurosis), full gene sequence CREBBP (CREB binding protein) (eg, Rubinstein-Taybi syndrome), duplication/deletion analysis Cytogenomic microarray analysis, neoplasia (eg, interrogation of copy number, and loss-of-heterozygosity via single nucleotide polymorphism [SNP]-based comparative genomic hybridization [CGH] microarray analysis) (Do not report analyte-specific molecular pathology procedures separately when the specific analytes are included as part of the cytogenomic microarray analysis for neoplasia) (Do not report 88271 when performing cytogenomic microarray analysis) DBT (dihydrolipoamide branched chain transacylase E2) (eg, maple syrup urine disease, type 2), full gene sequence DLAT (dihydrolipoamide S-acetyltransferase) (eg, pyruvate dehydrogenase E2 deficiency), full gene sequence DLD (dihydrolipoamide dehydrogenase) (eg, maple syrup urine disease, type III), full gene sequence DSC2 (desmocollin) (eg, arrhythmogenic right ventricular dysplasia/cardiomyopathy 11), full gene sequence DSG2 (desmoglein 2) (eg, arrhythmogenic right ventricular dysplasia/cardiomyopathy 10), full gene sequence DSP (desmoplakin) (eg, arrhythmogenic right ventricular dysplasia/cardiomyopathy 8), full gene sequence EFHC1 (EF-hand domain [C-terminal] containing 1) (eg, juvenile myoclonic epilepsy), full gene sequence EIF2B3 (eukaryotic translation initiation factor 2B, subunit 3 gamma, 58kDa) (eg, leukoencephalopathy with vanishing white matter), full gene sequence EIF2B4 (eukaryotic translation initiation factor 2B, subunit 4 delta, 67kDa) (eg,</p> |

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|      | <p>leukoencephalopathy with vanishing white matter), full gene sequence EIF2B5 (eukaryotic translation initiation factor 2B, subunit 5 epsilon, 82kDa) (eg, childhood ataxia with central nervous system hypomyelination/vanishing white matter), full gene sequence ENG (endoglin) (eg, hereditary hemorrhagic telangiectasia, type 1), full gene sequence EYA1 (eyes absent homolog 1 [Drosophila]) (eg, branchio-otorenal [BOR] spectrum disorders), full gene sequence F8 (coagulation factor VIII) (eg, hemophilia A), duplication/deletion analysis FAH (fumarylacetoacetate hydrolase [fumarylacetoacetase]) (eg, tyrosinemia, type 1), full gene sequence FASTKD2 (FAST kinase domains 2) (eg, mitochondrial respiratory chain complex IV deficiency), full gene sequence FIG4 (FIG4 homolog, SAC1 lipid phosphatase domain containing [S. cerevisiae]) (eg, Charcot-Marie-Tooth disease), full gene sequence FTSJ1 (FtsJ RNA methyltransferase homolog 1 [E. coli]) (eg, X-linked mental retardation 9), full gene sequence FUS (fused in sarcoma) (eg, amyotrophic lateral sclerosis), full gene sequence GAA (glucosidase, alpha; acid) (eg, glycogen storage disease type II [Pompe disease]), full gene sequence GALC (galactosylceramidase) (eg, Krabbe disease), full gene sequence GALT (galactose-1-phosphate uridylyltransferase) (eg, galactosemia), full gene sequence GARS (glycyl-tRNA synthetase) (eg, Charcot-Marie-Tooth disease), full gene sequence GCDH (glutaryl-CoA dehydrogenase) (eg, glutaricacidemia type 1), full gene sequence GCK (glucokinase [hexokinase 4]) (eg, maturity-onset diabetes of the young [MODY]), full gene sequence GLUD1 (glutamate dehydrogenase 1) (eg, familial hyperinsulinism), full gene sequence GNE (glucosamine [UDP-N-acetyl]-2-epimerase/N-acetylmannosamine kinase) (eg, inclusion body myopathy 2 [IBM2], Nonaka myopathy), full gene sequence GRN (granulin) (eg, frontotemporal dementia), full gene sequence HADHA (hydroxyacyl-CoA dehydrogenase/3-ketoacyl-CoA thiolase/enoyl-CoA hydratase [trifunctional protein] alpha subunit) (eg, long chain acyl-coenzyme A dehydrogenase deficiency), full gene sequence HADHB (hydroxyacyl-CoA dehydrogenase/3-ketoacyl-CoA thiolase/enoyl-CoA hydratase [trifunctional protein], beta subunit) (eg, trifunctional protein deficiency), full gene sequence HEXA (hexosaminidase A, alpha polypeptide) (eg, Tay-Sachs disease), full gene sequence HLCS (HLCS holocarboxylase synthetase) (eg, holocarboxylase synthetase deficiency), full gene sequence HNF4A (hepatocyte nuclear factor 4, alpha) (eg, maturity-onset diabetes of the young [MODY]), full gene sequence IDUA (iduronidase, alpha-L-) (eg, mucopolysaccharidosis type I), full gene sequence INF2 (inverted formin, FH2 and WH2 domain containing) (eg, focal segmental glomerulosclerosis), full gene sequence IVD (isovaleryl-CoA dehydrogenase) (eg, isovaleric acidemia), full gene sequence JAG1 (jagged 1) (eg, Alagille syndrome), duplication/deletion analysis JUP (junction plakoglobin) (eg, arrhythmogenic right ventricular dysplasia/cardiomyopathy 11), full gene sequence KAL1 (Kallmann syndrome 1 sequence) (eg, Kallmann syndrome), full gene sequence KCNH2 (potassium voltage-gated channel, subfamily H [eag-related], member 2) (eg, short QT syndrome, long QT syndrome), full gene sequence KCNQ1 (potassium voltage-gated channel, KQT-like subfamily, member 1) (eg, short QT syndrome, long QT syndrome), full gene sequence KCNQ2 (potassium voltage-gated channel, KQT-like subfamily, member 2) (eg, epileptic encephalopathy), full gene sequence LDB3 (LIM domain binding 3) (eg, familial dilated cardiomyopathy, myofibrillar myopathy), full gene sequence LDLR (low density lipoprotein receptor) (eg, familial hypercholesterolemia), full gene sequence LEPR (leptin receptor) (eg, obesity with hypogonadism), full gene sequence LHCGR (luteinizing hormone/choriogonadotropin receptor) (eg, precocious male puberty), full gene sequence LMNA (lamin A/C) (eg, Emery-Dreifuss muscular dystrophy [EDMD1, 2 and 3] limb-girdle muscular dystrophy [LGMD] type 1B, dilated cardiomyopathy [CMD1A], familial partial lipodystrophy [FPLD2]), full gene sequence LRP5 (low density lipoprotein receptor-related protein 5) (eg, osteopetrosis), full gene sequence MAP2K1 (mitogen-activated protein kinase 1) (eg, cardiofaciocutaneous syndrome), full gene sequence MAP2K2 (mitogen-activated protein kinase 2) (eg, cardiofaciocutaneous syndrome), full gene sequence MAPT (microtubule-associated protein tau) (eg, frontotemporal dementia), full gene sequence MCCC1 (methylcrotonoyl-CoA carboxylase 1 [alpha]) (eg, 3-methylcrotonoyl-CoA carboxylase deficiency), full gene sequence MCCC2 (methylcrotonoyl-CoA</p> |



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|      | <p>carboxylase 2 [beta]) (eg, 3-methylcrotonyl carboxylase deficiency), full gene sequence MFN2 (mitofusin 2) (eg, Charcot-Marie-Tooth disease), full gene sequence MTM1 (myotubularin 1) (eg, X-linked centronuclear myopathy), full gene sequence MUT (methylmalonyl CoA mutase) (eg, methylmalonic acidemia), full gene sequence MUTYH (mutY homolog [E. coli]) (eg, MYH-associated polyposis), full gene sequence NDUFS1 (NADH dehydrogenase [ubiquinone] Fe-S protein 1, 75kDa [NADH-coenzyme Q reductase]) (eg, Leigh syndrome, mitochondrial complex I deficiency), full gene sequence NF2 (neurofibromin 2 [merlin]) (eg, neurofibromatosis, type 2), full gene sequence NOTCH3 (notch 3) (eg, cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy [CADASIL]), targeted sequence analysis (eg, exons 1-23) NPC1 (Niemann-Pick disease, type C1) (eg, Niemann-Pick disease), full gene sequence NPHP1 (nephronophthisis 1 [juvenile]) (eg, Joubert syndrome), full gene sequence NSD1 (nuclear receptor binding SET domain protein 1) (eg, Sotos syndrome), full gene sequence OPA1 (optic atrophy 1) (eg, optic atrophy), duplication/deletion analysis OPTN (optineurin) (eg, amyotrophic lateral sclerosis), full gene sequence PAFAH1B1 (platelet-activating factor acetylhydrolase 1b, regulatory subunit 1 [45kDa]) (eg, lissencephaly, Miller-Dieker syndrome), full gene sequence PAH (phenylalanine hydroxylase) (eg, phenylketonuria), full gene sequence PALB2 (partner and localizer of BRCA2) (eg, breast and pancreatic cancer), full gene sequence PARK2 (Parkinson protein 2, E3 ubiquitin protein ligase [parkin]) (eg, Parkinson disease), full gene sequence PAX2 (paired box 2) (eg, renal coloboma syndrome), full gene sequence PC (pyruvate carboxylase) (eg, pyruvate carboxylase deficiency), full gene sequence PCCA (propionyl CoA carboxylase, alpha polypeptide) (eg, propionic acidemia, type 1), full gene sequence PCCB (propionyl CoA carboxylase, beta polypeptide) (eg, propionic acidemia), full gene sequence PCDH15 (protocadherin-related 15) (eg, Usher syndrome type 1F), duplication/deletion analysis PCSK9 (proprotein convertase subtilisin/kexin type 9) (eg, familial hypercholesterolemia), full gene sequence PDHA1 (pyruvate dehydrogenase [lipoamide] alpha 1) (eg, lactic acidosis), full gene sequence PDHX (pyruvate dehydrogenase complex, component X) (eg, lactic acidosis), full gene sequence PHEX (phosphate-regulating endopeptidase homolog, X-linked) (eg, hypophosphatemic rickets), full gene sequence PKD2 (polycystic kidney disease 2 [autosomal dominant]) (eg, polycystic kidney disease), full gene sequence PKP2 (plakophilin 2) (eg, arrhythmogenic right ventricular dysplasia/cardiomyopathy 9), full gene sequence PNKD (paroxysmal nonkinesigenic dyskinesia) (eg, paroxysmal nonkinesigenic dyskinesia), full gene sequence POLG (polymerase [DNA directed], gamma) (eg, Alpers-Huttenlocher syndrome, autosomal dominant progressive external ophthalmoplegia), full gene sequence POMGNT1 (protein O-linked mannose beta1,2-N acetylglucosaminyltransferase) (eg, muscle-eye-brain disease, Walker-Warburg syndrome), full gene sequence POMT1 (protein-O-mannosyltransferase 1) (eg, limb-girdle muscular dystrophy [LGMD] type 2K, Walker-Warburg syndrome), full gene sequence POMT2 (protein-O-mannosyltransferase 2) (eg, limb-girdle muscular dystrophy [LGMD] type 2N, Walker-Warburg syndrome), full gene sequence PRKAG2 (protein kinase, AMP-activated, gamma 2 non-catalytic subunit) (eg, familial hypertrophic cardiomyopathy with Wolff-Parkinson-White syndrome, lethal congenital glycogen storage disease of heart), full gene sequence PRKCG (protein kinase C, gamma) (eg, spinocerebellar ataxia), full gene sequence PSEN2 (presenilin 2 [Alzheimer disease 4]) (eg, Alzheimer disease), full gene sequence PTPN11 (protein tyrosine phosphatase, non-receptor type 11) (eg, Noonan syndrome, LEOPARD syndrome), full gene sequence PYGM (phosphorylase, glycogen, muscle) (eg, glycogen storage disease type V, McArdle disease), full gene sequence RAF1 (v-raf-1 murine leukemia viral oncogene homolog 1) (eg, LEOPARD syndrome), full gene sequence RET (ret proto-oncogene) (eg, Hirschsprung disease), full gene sequence RPE65 (retinal pigment epithelium-specific protein 65kDa) (eg, retinitis pigmentosa, Leber congenital amaurosis), full gene sequence RYR1 (ryanodine receptor 1, skeletal) (eg, malignant hyperthermia), targeted sequence analysis of exons with functionally-confirmed mutations SCN4A (sodium channel, voltage-gated, type IV, alpha subunit) (eg, hyperkalemic periodic paralysis), full gene sequence SCNN1A (sodium channel, nonvoltage-gated 1 alpha) (eg,</p> |

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|                           | <p>pseudohypoaldosteronism), full gene sequence SCNN1B (sodium channel, nonvoltage-gated 1, beta) (eg, Liddle syndrome, pseudohypoaldosteronism), full gene sequence SCNN1G (sodium channel, nonvoltage-gated 1, gamma) (eg, Liddle syndrome, pseudohypoaldosteronism), full gene sequence SDHA (succinate dehydrogenase complex, subunit A, flavoprotein [Fp]) (eg, Leigh syndrome, mitochondrial complex II deficiency), full gene sequence SETX (senataxin) (eg, ataxia), full gene sequence SGCE (sarcoglycan, epsilon) (eg, myoclonic dystonia), full gene sequence SH3TC2 (SH3 domain and tetratricopeptide repeats 2) (eg, Charcot-Marie-Tooth disease), full gene sequence SLC9A6 (solute carrier family 9 [sodium/hydrogen exchanger], member 6) (eg, Christianson syndrome), full gene sequence SLC26A4 (solute carrier family 26, member 4) (eg, Pendred syndrome), full gene sequence SLC37A4 (solute carrier family 37 [glucose-6-phosphate transporter], member 4) (eg, glycogen storage disease type Ib), full gene sequence SMAD4 (SMAD family member 4) (eg, hemorrhagic telangiectasia syndrome, juvenile polyposis), full gene sequence SOS1 (son of sevenless homolog 1) (eg, Noonan syndrome, gingival fibromatosis), full gene sequence SPAST (spastin) (eg, spastic paraplegia), full gene sequence SPG7 (spastic paraplegia 7 [pure and complicated autosomal recessive]) (eg, spastic paraplegia), full gene sequence STXBP1 (syntaxin-binding protein 1) (eg, epileptic encephalopathy), full gene sequence TAZ (tafazzin) (eg, methylglutaconic aciduria type 2, Barth syndrome), full gene sequence TCF4 (transcription factor 4) (eg, Pitt-Hopkins syndrome), full gene sequence TH (tyrosine hydroxylase) (eg, Segawa syndrome), full gene sequence TMEM43 (transmembrane protein 43) (eg, arrhythmogenic right ventricular cardiomyopathy), full gene sequence TNNT2 (troponin T, type 2 [cardiac]) (eg, familial hypertrophic cardiomyopathy), full gene sequence TRPC6 (transient receptor potential cation channel, subfamily C, member 6) (eg, focal segmental glomerulosclerosis), full gene sequence TSC1 (tuberous sclerosis 1) (eg, tuberous sclerosis), full gene sequence TSC2 (tuberous sclerosis 2) (eg, tuberous sclerosis), duplication/deletion analysis UBE3A (ubiquitin protein ligase E3A) (eg, Angelman syndrome), full gene sequence UMOD (uromodulin) (eg, glomerulocystic kidney disease with hyperuricemia and isosthenuria), full gene sequence VWF (von Willebrand factor) (von Willebrand disease type 2A), extended targeted sequence analysis (eg, exons 11-16, 24-26, 51, 52) WAS (Wiskott-Aldrich syndrome [eczema-thrombocytopenia]) (eg, Wiskott-Aldrich syndrome), full gene sequence</p> |

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| Code                      | Code Description   |
| 81407                     | <p>Molecular pathology procedure, Level 8 (eg, analysis of 26-50 exons by DNA sequence analysis, mutation scanning or duplication/deletion variants of &gt;50 exons, sequence analysis of multiple genes on one platform) ABCC8 (ATP-binding cassette, sub-family C [CFTR/MRP], member 8) (eg, familial hyperinsulinism), full gene sequence AGL (amylo-alpha-1, 6-glucosidase, 4-alpha-glucanotransferase) (eg, glycogen storage disease type III), full gene sequence AHI1 (Abelson helper integration site 1) (eg, Joubert syndrome), full gene sequence ASPM (asp [abnormal spindle] homolog, microcephaly associated [Drosophila]) (eg, primary microcephaly), full gene sequence CACNA1A (calcium channel, voltage-dependent, P/Q type, alpha 1A subunit) (eg, familial hemiplegic migraine), full gene sequence CHD7 (chromodomain helicase DNA binding protein 7) (eg, CHARGE syndrome), full gene sequence COL4A4 (collagen, type IV, alpha 4) (eg, Alport syndrome), full gene sequence COL4A5 (collagen, type IV, alpha 5) (eg, Alport syndrome), duplication/deletion analysis COL6A1 (collagen, type VI, alpha 1) (eg, collagen type VI-related disorders), full gene sequence COL6A2 (collagen, type VI, alpha 2) (eg, collagen type VI-related disorders), full gene sequence COL6A3 (collagen, type VI, alpha 3) (eg, collagen type VI-related disorders), full gene sequence CREBBP (CREB binding protein) (eg, Rubinstein-Taybi syndrome), full gene sequence F8 (coagulation factor VIII) (eg, hemophilia A), full gene sequence JAG1 (jagged 1) (eg, Alagille syndrome), full gene sequence KDM5C (lysine [K]-specific demethylase 5C) (eg, X-linked mental retardation), full gene sequence KIAA0196 (KIAA0196) (eg, spastic paraplegia), full gene sequence L1CAM (L1 cell adhesion molecule) (eg, MASA syndrome, X-linked hydrocephaly), full gene sequence LAMB2 (laminin, beta 2 [laminin S]) (eg, Pierson syndrome), full gene sequence MYBPC3 (myosin binding protein C, cardiac) (eg, familial hypertrophic cardiomyopathy), full gene sequence MYH6 (myosin, heavy chain 6, cardiac muscle, alpha) (eg, familial dilated cardiomyopathy), full gene sequence MYH7 (myosin, heavy chain 7, cardiac muscle, beta) (eg, familial hypertrophic cardiomyopathy, Liang distal myopathy), full gene sequence MYO7A (myosin VIIA) (eg, Usher syndrome, type 1), full gene sequence NOTCH1 (notch 1) (eg, aortic valve disease), full gene sequence NPHS1 (nephrosis 1, congenital, Finnish type [nephrin]) (eg, congenital Finnish nephrosis), full gene sequence OPA1 (optic atrophy 1) (eg, optic atrophy), full gene sequence PCDH15 (protocadherin-related 15) (eg, Usher syndrome, type 1), full gene sequence PKD1 (polycystic kidney disease 1 [autosomal dominant]) (eg, polycystic kidney disease), full gene sequence PLCE1 (phospholipase C, epsilon 1) (eg, nephrotic syndrome type 3), full gene sequence SCN1A (sodium channel, voltage-gated, type 1, alpha subunit) (eg, generalized epilepsy with febrile seizures), full gene sequence SCN5A (sodium channel, voltage-gated, type V, alpha subunit) (eg, familial dilated cardiomyopathy), full gene sequence SLC12A1 (solute carrier family 12 [sodium/potassium/chloride transporters], member 1) (eg, Bartter syndrome), full gene sequence SLC12A3 (solute carrier family 12 [sodium/chloride transporters], member 3) (eg, Gitelman syndrome), full gene sequence SPG11 (spastic paraplegia 11 [autosomal recessive]) (eg, spastic paraplegia), full gene sequence SPTBN2 (spectrin, beta, non-erythrocytic 2) (eg, spinocerebellar ataxia), full gene sequence TMEM67 (transmembrane protein 67) (eg, Joubert syndrome), full gene sequence TSC2 (tuberous sclerosis 2) (eg, tuberous sclerosis), full gene sequence USH1C (Usher syndrome 1C [autosomal recessive, severe]) (eg, Usher syndrome, type 1), full gene sequence VPS13B (vacuolar protein sorting 13 homolog B [yeast]) (eg, Cohen syndrome), duplication/deletion analysis WDR62 (WD repeat domain 62) (eg, primary autosomal recessive microcephaly), full gene sequence</p> |

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| 81408                     | Molecular pathology procedure, Level 9 (eg, analysis of >50 exons in a single gene by DNA sequence analysis) ABCA4 (ATP-binding cassette, sub-family A [ABC1], member 4) (eg, Stargardt disease, age-related macular degeneration), full gene sequence ATM (ataxia telangiectasia mutated) (eg, ataxia telangiectasia), full gene sequence CDH23 (cadherin-related 23) (eg, Usher syndrome, type 1), full gene sequence CEP290 (centrosomal protein 290kDa) (eg, Joubert syndrome), full gene sequence COL1A1 (collagen, type I, alpha 1) (eg, osteogenesis imperfecta, type I), full gene sequence COL1A2 (collagen, type I, alpha 2) (eg, osteogenesis imperfecta, type I), full gene sequence COL4A1 (collagen, type IV, alpha 1) (eg, brain small-vessel disease with hemorrhage), full gene sequence COL4A3 (collagen, type IV, alpha 3 [Goodpasture antigen]) (eg, Alport syndrome), full gene sequence COL4A5 (collagen, type IV, alpha 5) (eg, Alport syndrome), full gene sequence DMD (dystrophin) (eg, Duchenne/Becker muscular dystrophy), full gene sequence DYSF (dysferlin, limb girdle muscular dystrophy 2B [autosomal recessive]) (eg, limb-girdle muscular dystrophy), full gene sequence FBN1 (fibrillin 1) (eg, Marfan syndrome), full gene sequence ITPR1 (inositol 1,4,5-trisphosphate receptor, type 1) (eg, spinocerebellar ataxia), full gene sequence LAMA2 (laminin, alpha 2) (eg, congenital muscular dystrophy), full gene sequence LRRK2 (leucine-rich repeat kinase 2) (eg, Parkinson disease), full gene sequence MYH11 (myosin, heavy chain 11, smooth muscle) (eg, thoracic aortic aneurysms and aortic dissections), full gene sequence NEB (nebulin) (eg, nemaline myopathy 2), full gene sequence NF1 (neurofibromin 1) (eg, neurofibromatosis, type 1), full gene sequence PKHD1 (polycystic kidney and hepatic disease 1) (eg, autosomal recessive polycystic kidney disease), full gene sequence RYR1 (ryanodine receptor 1, skeletal) (eg, malignant hyperthermia), full gene sequence RYR2 (ryanodine receptor 2 [cardiac]) (eg, catecholaminergic polymorphic ventricular tachycardia, arrhythmogenic right ventricular dysplasia), full gene sequence or targeted sequence analysis of > 50 exons USH2A (Usher syndrome 2A [autosomal recessive, mild]) (eg, Usher syndrome, type 2), full gene sequence VPS13B (vacuolar protein sorting 13 homolog B [yeast]) (eg, Cohen syndrome), full gene sequence VWF (von Willebrand factor) (eg, von Willebrand disease types 1 and 3), full gene sequence |
| 81410                     | Aortic dysfunction or dilation (eg, Marfan syndrome, Loeys Dietz syndrome, Ehler Danlos syndrome type IV, arterial tortuosity syndrome); genomic sequence analysis panel, must include sequencing of at least 9 genes, including FBN1, TGFBR1, TGFBR2, COL3A1, MYH11, ACTA2, SLC2A10, SMAD3, and MYLK  |
| 81411                     | Aortic dysfunction or dilation (eg, Marfan syndrome, Loeys Dietz syndrome, Ehler Danlos syndrome type IV, arterial tortuosity syndrome); duplication/deletion analysis panel, must include analyses for TGFBR1, TGFBR2, MYH11, and COL3A1  |
| 81412                     | Ashkenazi Jewish associated disorders (eg, Bloom syndrome, Canavan disease, cystic fibrosis, familial dysautonomia, Fanconi anemia group C, Gaucher disease, Tay-Sachs disease), genomic sequence analysis panel, must include sequencing of at least 9 genes, including ASPA, BLM, CFTR, FANCC, GBA, HEXA, IKBKAP, MCOLN1, and SMPD1  |
| 81413                     | Cardiac ion channelopathies (eg, Brugada syndrome, long QT syndrome, short QT syndrome, catecholaminergic polymorphic ventricular tachycardia); genomic sequence analysis panel, must include sequencing of at least 10 genes, including ANK2, CASQ2, CAV3, KCNE1, KCNE2, KCNH2, KCNJ2, KCNQ1, RYR2, and SCN5A   |
| 81414                     | Cardiac ion channelopathies (eg, Brugada syndrome, long QT syndrome, short QT syndrome, catecholaminergic polymorphic ventricular tachycardia); duplication/deletion gene analysis panel, must include analysis of at least 2 genes, including KCNH2 and KCNQ1   |
| 81415                     | Exome (eg, unexplained constitutional or heritable disorder or syndrome); sequence analysis  |
| 81416                     | Exome (eg, unexplained constitutional or heritable disorder or syndrome); sequence analysis, each comparator exome (eg, parents, siblings) (List separately in addition to code for primary procedure)   |

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| 81417                     | Exome (eg, unexplained constitutional or heritable disorder or syndrome); re-evaluation of previously obtained exome sequence (eg, updated knowledge or unrelated condition/syndrome)   |
| 81420                     | Fetal chromosomal aneuploidy (eg, trisomy 21, monosomy X) genomic sequence analysis panel, circulating cell-free fetal DNA in maternal blood, must include analysis of chromosomes 13, 18, and 21   |
| 81422                     | Fetal chromosomal microdeletion(s) genomic sequence analysis (eg, DiGeorge syndrome, Cri-du-chat syndrome), circulating cell-free fetal DNA in maternal blood   |
| 81425                     | Genome (eg, unexplained constitutional or heritable disorder or syndrome); sequence analysis  |
| 81426                     | Genome (eg, unexplained constitutional or heritable disorder or syndrome); sequence analysis, each comparator genome (eg, parents, siblings) (List separately in addition to code for primary procedure)  |
| 81427                     | Genome (eg, unexplained constitutional or heritable disorder or syndrome); re-evaluation of previously obtained genome sequence (eg, updated knowledge or unrelated condition/syndrome)   |
| 81430                     | Hearing loss (eg, nonsyndromic hearing loss, Usher syndrome, Pendred syndrome); genomic sequence analysis panel, must include sequencing of at least 60 genes, including CDH23, CLRN1, GJB2, GPR98, MTRNR1, MYO7A, MYO15A, PCDH15, OTOF, SLC26A4, TMC1, TMPRSS3, USH1C, USH1G, USH2A, and WFS1                            |
| 81431                     | Hearing loss (eg, nonsyndromic hearing loss, Usher syndrome, Pendred syndrome); duplication/deletion analysis panel, must include copy number analyses for STRC and DFNB1 deletions in GJB2 and GJB6 genes  |
| 81432                     | Hereditary breast cancer-related disorders (eg, hereditary breast cancer, hereditary ovarian cancer, hereditary endometrial cancer); genomic sequence analysis panel, must include sequencing of at least 14 genes, including ATM, BRCA1, BRCA2, BRIP1, CDH1, MLH1, MSH2, MSH6, NBN, PALB2, PTEN, RAD51C, STK11, and TP53 |
| 81433                     | Hereditary breast cancer-related disorders (eg, hereditary breast cancer, hereditary ovarian cancer, hereditary endometrial cancer); duplication/deletion analysis panel, must include analyses for BRCA1, BRCA2, MLH1, MSH2, and STK11   |
| 81434                     | Hereditary retinal disorders (eg, retinitis pigmentosa, Leber congenital amaurosis, cone-rod dystrophy), genomic sequence analysis panel, must include sequencing of at least 15 genes, including ABCA4, CNGA1, CRB1, EYS, PDE6A, PDE6B, PRPF31, PRPH2, RDH12, RHO, RP1, RP2, RPE65, RPGR, and USH2A                      |
| 81435                     | Hereditary colon cancer disorders (eg, Lynch syndrome, PTEN hamartoma syndrome, Cowden syndrome, familial adenomatosis polyposis); genomic sequence analysis panel, must include sequencing of at least 10 genes, including APC, BMPR1A, CDH1, MLH1, MSH2, MSH6, MUTYH, PTEN, SMAD4, and STK11                            |
| 81436                     | Hereditary colon cancer disorders (eg, Lynch syndrome, PTEN hamartoma syndrome, Cowden syndrome, familial adenomatosis polyposis); duplication/deletion analysis panel, must include analysis of at least 5 genes, including MLH1, MSH2, EPCAM, SMAD4, and STK11  |
| 81437                     | Hereditary neuroendocrine tumor disorders (eg, medullary thyroid carcinoma, parathyroid carcinoma, malignant pheochromocytoma or paraganglioma); genomic sequence analysis panel, must include sequencing of at least 6 genes, including MAX, SDHB, SDHC, SDHD, TMEM127, and VHL  |
| 81438                     | Hereditary neuroendocrine tumor disorders (eg, medullary thyroid carcinoma, parathyroid carcinoma, malignant pheochromocytoma or paraganglioma); duplication/deletion analysis panel, must include analyses for SDHB, SDHC, SDHD, and VHL   |
| 81439                     | Inherited cardiomyopathy (eg, hypertrophic cardiomyopathy, dilated cardiomyopathy, arrhythmogenic right ventricular cardiomyopathy) genomic sequence analysis panel, must include sequencing of at least 5 genes, including DSG2, MYBPC3, MYH7, PKP2, and TTN   |



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| 81440                     | Nuclear encoded mitochondrial genes (eg, neurologic or myopathic phenotypes), genomic sequence panel, must include analysis of at least 100 genes, including BCS1L, C10orf2, COQ2, COX10, DGUOK, MPV17, OPA1, PDSS2, POLG, POLG2, RRM2B, SCO1, SCO2, SLC25A4, SUCLA2, SUCLG1, TAZ, TK2, and TYMP  |
| 81442                     | Noonan spectrum disorders (eg, Noonan syndrome, cardio-facio-cutaneous syndrome, Costello syndrome, LEOPARD syndrome, Noonan-like syndrome), genomic sequence analysis panel, must include sequencing of at least 12 genes, including BRAF, CBL, HRAS, KRAS, MAP2K1, MAP2K2, NRAS, PTPN11, RAF1, RIT1, SHOC2, and SOS1  |
| 81445                     | Targeted genomic sequence analysis panel, solid organ neoplasm, DNA analysis, and RNA analysis when performed, 5-50 genes (eg, ALK, BRAF, CDKN2A, EGFR, ERBB2, KIT, KRAS, NRAS, MET, PDGFRA, PDGFRB, PGR, PIK3CA, PTEN, RET), interrogation for sequence variants and copy number variants or rearrangements, if performed  |
| 81450                     | Targeted genomic sequence analysis panel, hematolymphoid neoplasm or disorder, DNA analysis, and RNA analysis when performed, 5-50 genes (eg, BRAF, CEBPA, DNMT3A, EZH2, FLT3, IDH1, IDH2, JAK2, KRAS, KIT, MLL, NRAS, NPM1, NOTCH1), interrogation for sequence variants, and copy number variants or rearrangements, or isoform expression or mRNA expression levels, if performed                                  |
| 81455                     | Targeted genomic sequence analysis panel, solid organ or hematolymphoid neoplasm, DNA analysis, and RNA analysis when performed, 51 or greater genes (eg, ALK, BRAF, CDKN2A, CEBPA, DNMT3A, EGFR, ERBB2, EZH2, FLT3, IDH1, IDH2, JAK2, KIT, KRAS, MLL, NPM1, NRAS, MET, NOTCH1, PDGFRA, PDGFRB, PGR, PIK3CA, PTEN, RET), interrogation for sequence variants and copy number variants or rearrangements, if performed |
| 81460                     | Whole mitochondrial genome (eg, Leigh syndrome, mitochondrial encephalomyopathy, lactic acidosis, and stroke-like episodes [MELAS], myoclonic epilepsy with ragged-red fibers [MERFF], neuropathy, ataxia, and retinitis pigmentosa [NARP], Leber hereditary optic neuropathy [LHON]), genomic sequence, must include sequence analysis of entire mitochondrial genome with heteroplasmy detection                    |
| 81465                     | Whole mitochondrial genome large deletion analysis panel (eg, Kearns-Sayre syndrome, chronic progressive external ophthalmoplegia), including heteroplasmy detection, if performed  |
| 81470                     | X-linked intellectual disability (XLID) (eg, syndromic and non-syndromic XLID); genomic sequence analysis panel, must include sequencing of at least 60 genes, including ARX, ATRX, CDKL5, FGD1, FMR1, HUWE1, IL1RAPL, KDM5C, L1CAM, MECP2, MED12, MID1, OCRL, RPS6KA3, and SLC16A2   |
| 81471                     | X-linked intellectual disability (XLID) (eg, syndromic and non-syndromic XLID); duplication/deletion gene analysis, must include analysis of at least 60 genes, including ARX, ATRX, CDKL5, FGD1, FMR1, HUWE1, IL1RAPL, KDM5C, L1CAM, MECP2, MED12, MID1, OCRL, RPS6KA3, and SLC16A2  |
| 81479                     | Unlisted molecular pathology procedure  |
| 81490                     | Autoimmune (rheumatoid arthritis), analysis of 12 biomarkers using immunoassays, utilizing serum, prognostic algorithm reported as a disease activity score   |
| 81493                     | Coronary artery disease, mRNA, gene expression profiling by real-time RT-PCR of 23 genes, utilizing whole peripheral blood, algorithm reported as a risk score  |
| 81504                     | Oncology (tissue of origin), microarray gene expression profiling of > 2000 genes, utilizing formalin-fixed paraffin-embedded tissue, algorithm reported as tissue similarity scores  |
| 81507                     | Fetal aneuploidy (trisomy 21, 18, and 13) DNA sequence analysis of selected regions using maternal plasma, algorithm reported as a risk score for each trisomy  |
| 81519                     | Oncology (breast), mRNA, gene expression profiling by real-time RT-PCR of 21 genes, utilizing formalin-fixed paraffin embedded tissue, algorithm reported as recurrence score   |



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| 81525                     | Oncology (colon), mRNA, gene expression profiling by real-time RT-PCR of 12 genes (7 content and 5 housekeeping), utilizing formalin-fixed paraffin-embedded tissue, algorithm reported as a recurrence score   |
| 81528                     | Oncology (colorectal) screening, quantitative real-time target and signal amplification of 10 DNA markers (KRAS mutations, promoter methylation of NDRG4 and BMP3) and fecal hemoglobin, utilizing stool, algorithm reported as a positive or negative result   |
| 81535                     | Oncology (gynecologic), live tumor cell culture and chemotherapeutic response by DAPI stain and morphology, predictive algorithm reported as a drug response score; first single drug or drug combination   |
| 81536                     | Oncology (gynecologic), live tumor cell culture and chemotherapeutic response by DAPI stain and morphology, predictive algorithm reported as a drug response score; each additional single drug or drug combination (List separately in addition to code for primary procedure)   |
| 81538                     | Oncology (lung), mass spectrometric 8-protein signature, including amyloid A, utilizing serum, prognostic and predictive algorithm reported as good versus poor overall survival  |
| 81539                     | Oncology (high-grade prostate cancer), biochemical assay of four proteins (Total PSA, Free PSA, Intact PSA, and human kallikrein-2 [hK2]), utilizing plasma or serum, prognostic algorithm reported as a probability score  |
| 81540                     | Oncology (tumor of unknown origin), mRNA, gene expression profiling by real-time RT-PCR of 92 genes (87 content and 5 housekeeping) to classify tumor into main cancer type and subtype, utilizing formalin-fixed paraffin-embedded tissue, algorithm reported as a probability of a predicted main cancer type and subtype |
| 81545                     | Oncology (thyroid), gene expression analysis of 142 genes, utilizing fine needle aspirate, algorithm reported as a categorical result (eg, benign or suspicious)  |
| 81595                     | Cardiology (heart transplant), mRNA, gene expression profiling by real-time quantitative PCR of 20 genes (11 content and 9 housekeeping), utilizing subfraction of peripheral blood, algorithm reported as a rejection risk score   |
| 81599                     | Unlisted multianalyte assay with algorithmic analysis   |
| 84999                     | Unlisted chemistry procedure  |
| 0004M                     | Scoliosis, Dna Analysis Of 53 Single Nucleotide Polymorphisms   |
| 0006M                     | Oncology (Hepatic), Mrna Expression Levels Of 161 Genes   |
| 0007M                     | Oncology (Gastrointestinal Neuroendocrine Tumors), Real-Time Pcr Expression Analysis  |
| 0008M                     | Oncology (Breast), Mrna Analysis Of 58 Genes Using Hybrid Capture   |
| 0009M                     | Fetal Aneuploidy (Trisomy 21, And 18) Dna Sequence Analysis   |
| 0010M                     | Oncology (High-Grade Prostate Cancer), Biochemical Assay Of Four Proteins   |
| G9143                     | Warfarin responsiveness testing by genetic technique using any method, any number of specimen(s)  |
| S3800                     | Genetic testing for amyotrophic lateral sclerosis (als)   |
| S3840                     | DNA analysis for germline mutations of the ret proto-oncogene for susceptibility to multiple endocrine neoplasia type 2   |
| S3841                     | Genetic testing for retinoblastoma  |
| S3842                     | Genetic testing for von hippel-lindau disease   |
| S3845                     | Genetic testing for alpha-thalassemia   |
| S3846                     | Genetic testing for hemoglobin e beta-thalassemia   |
| S3852                     | DNA analysis for apoe epsilon 4 allele for susceptibility to alzheimer's disease  |
| S3854                     | Gene expression profiling panel for use in the management of breast cancer treatment  |

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| Code                      | Code Description   |
| S3861                     | Genetic testing, sodium channel, voltage-gated, type v, alpha subunit (scn5a) and variants for suspected brugada syndrome                    |
| S3865                     | Comprehensive gene sequence analysis for hypertrophic cardiomyopathy   |
| S3866                     | Genetic analysis for a specific gene mutation for hypertrophic cardiomyopathy (hcm) in an individual with a known hcm mutation in the family |
| S3870                     | Comparative genomic hybridization (cgh) microarray testing for developmental delay, autism spectrum disorder and/or intellectual disability  |

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| Therapeutic Category           | HCPC  | Brand Drug              | Code Description  |
| Alpha-1 antitrypsin deficiency | J0256 | Aralast, Zemaira        | Injection, alpha 1 proteinase inhibitor (human), not otherwise specified, 10 mg   |
|                                | J0257 | Glassia                 | Injection, alpha 1 proteinase inhibitor (human), (glassia), 10 mg   |
|                                | S9346 | Prolastin               | Home infusion therapy, alpha-1-proteinase inhibitor (e.g., prolastin); administrative services, professional pharmacy services, care coordination, and all necessary supplies and equipment (drugs and nursing visits coded separately), per diem |
| Anemia                         | J0882 | Aranesp                 | Injection, darbepoetin alfa, 1 microgram (for esrd on dialysis)   |
|                                | J0885 | Procrit, Epogen         | Injection, epoetin alfa, (for non-esrd use), 1000 units   |
|                                | J0887 | Mircera for ESRD        | Injection, epoetin beta, 1 microgram, (for esrd on dialysis)  |
|                                | J0888 | Mircera for non-ESRD    | Injection, epoetin beta, 1 microgram, (for non esrd use)  |
|                                | J0890 | Omontys                 | Injection, peginesatide, 0.1 mg (for esrd on dialysis)  |
|                                | Q4081 | Procrit, Epogen         | Injection, epoetin alfa, 100 units (for esrd on dialysis)   |
|                                | Q9973 | Mircera for non-ESRD    | Injection, epoetin beta, 1 microgram, (non-esrd use)  |
|                                | J2357 | Xolair                  | Injection, omalizumab, 5 mg   |
| CAPS                           | J0638 | Ilaris                  | Injection, canakinumab, 1 mg  |
|                                | J2793 | Arcalyst                | Injection, rilonacept, 1 mg   |
| Cystic fibrosis                | J7639 | Pulmozyme               | Dornase alfa, inhalation solution, fda-approved final product, non-compounded, administered through dme, unit dose form, per milligram  |
|                                | J7682 | Bethkis, Kitabis, Tobis | Tobramycin, inhalation solution, fda-approved final product, non-compounded, unit dose form, administered through dme, per 300 milligrams   |
| Gout                           | J2507 | KrysteXXa               | Injection, pegloticase, 1 mg  |
| Growth disorder                | J1930 | Somatuline              | Injection, lanreotide, 1 mg   |
|                                | J2170 | IncreleX                | Injection, mecasermin, 1 mg   |
|                                | J2353 | Sandostatin             | Injection, octreotide, depot form for intramuscular injection, 1 mg   |
|                                | J2354 | Sandostatin             | Injection, octreotide, non-depot form for subcutaneous or intravenous injection, 25 mcg   |
| Hematopoietics                 | J1442 | Neupogen                | Injection, filgrastim (g-csf), eXcludes biosimilars, 1 microgram  |
|                                | J1447 | GraniX                  | Injection, tbo-filgrastim, 1 microgram  |
|                                | J2355 | Neumega                 | Injection, oprelvekin, 5 mg   |
|                                | J2820 | Leukine                 | Injection, sargramostim (gm-csf), 50 mcg  |
|                                | Q5101 | ZarXio                  | Injection, filgrastim (g-csf), biosimilar, 1 microgram  |
| Hereditary angioedema          | J0596 | Ruconest                | Injection, c1 esterase inhibitor (recombinant), ruconest, 10 units  |
|                                | J0597 | Berinert                | Injection, c-1 esterase inhibitor (human), berinert, 10 units   |
|                                | J0598 | Cinryze                 | Injection, c-1 esterase inhibitor (human), cinryze, 10 units  |
|                                | J1290 | Kalbitor                | Injection, ecallantide, 1 mg  |

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| Therapeutic Category   | HCPC  | Brand Drug                                    | Code Description   |
|                        | j1744 | Firazyr                                       | Injection, icatibant, 1 mg   |
| Hormonal therapy       | J9226 | Supprelin LA                                  | Histrelin implant (supprelin la), 50 mg  |
| Immune deficiency      | 90281 | Gamastan                                      | Immune globulin (Ig), human, for intramuscular use   |
|                        | 90283 | Immune globulin                               | Immune globulin (IgIV), human, for intravenous use   |
|                        | 90284 | Gammagard                                     | Immune globulin (SCIg), human, for use in subcutaneous infusions, 100 mg, each   |
|                        | J1459 | Privigen                                      | Injection, immune globulin (privigen), intravenous, non-lyophilized (e.g., liquid), 500 mg   |
|                        | J1556 | Bivigam                                       | Injection, immune globulin (bivigam), 500 mg   |
|                        | J1557 | Gammaplex                                     | Injection, immune globulin, (gammaplex), intravenous, non-lyophilized (e.g., liquid), 500 mg   |
|                        | J1559 | Hizentra                                      | Injection, immune globulin (hizentra), 100 mg  |
|                        | J1560 | Gamastan                                      | Injection, gamma globulin, intramuscular, over 10 cc   |
|                        | J1561 | GamuneX, Gammaked                             | Injection, immune globulin, (gamuneX-c/gammaked), non-lyophilized (e.g., liquid), 500 mg   |
|                        | J1566 | Carimune NF<br>Panglobulin NF<br>Gammagard SD | Injection, immune globulin, intravenous, lyophilized (e.g., powder), not otherwise specified, 500 mg   |
|                        | J1568 | Octagam                                       | Injection, immune globulin, (octagam), intravenous, non-lyophilized (e.g., liquid), 500 mg   |
|                        | J1569 | Gammagard non-lyophilized                     | Injection, immune globulin, (gammagard liquid), non-lyophilized, (e.g., liquid), 500 mg  |
|                        | J1572 | Flebogamma                                    | Injection, immune globulin, (flebogamma/flebogamma dif), intravenous, non-lyophilized (e.g., liquid), 500 mg   |
|                        | J1575 | Hyqvia  | Injection, immune globulin/hyaluronidase, (hyqvia), 100 mg immunoglobulin  |
| Immune modulators      | C9293 | VoraXaze                                      | Injection, glucarpidase, 10 units  |
|                        | J1745 | Remicade                                      | Injection infliximab, 10 mg  |
|                        | J3380 | Entyvio                                       | Injection, vedolizumab, 1 mg   |
|                        | J9310 | RituXan                                       | Injection, rituximab, 100 mg   |
|                        | J0129 | Orencia                                       | Injection, abatacept, 10 mg (code may be used for medicare when drug administered under the direct supervision of a physician, not for use when drug is self administered) |
|                        | J0800 | Acthar  | Injection, corticotropin, up to 40 units   |
|                        | J1602 | Simponi Aria                                  | Injection, golimumab, 1 mg, for intravenous use  |
|                        | J3262 | Actemra                                       | Injection, tocilizumab, 1 mg   |
| Infectious Disease     | J9215 | Alferon N                                     | Injection, interferon, alfa-n3, (human leukocyte derived), 250,000 iu  |
|                        | J9216 | Actimmune                                     | Injection, interferon, gamma 1-b, 3 million units  |
| ITP                    | J2796 | Nplate  | Injection, romiplostim, 10 micrograms  |

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| A-9 Specialty Pharmacy      |                    |                    |   |   |
|-----------------------------|--------------------|--------------------|---|---|
| Therapeutic Category        | HCPC               | Brand Drug         | Code Description  |   |
| Lupus                       | J0490              | Benlysta           | Injection, belimumab, 10 mg   |   |
| Lysosomal storage disorders | J0180              | Fabrazyme          | Injection, agalsidase beta, 1 mg  |   |
|                             | J0220              | Myozyme            | Injection, alglucosidase alfa, 10 mg, not otherwise specified                         |   |
|                             | J0221              | Lumizyme           | Injection, alglucosidase alfa, (lumizyme), 10 mg                                      |   |
|                             | J1322              | Vimizim            | Injection, elosulfase alfa, 1 mg  |   |
|                             | J1458              | Naglazyme          | Injection, galsulfase, 1 mg   |   |
|                             | J1743              | Elaprase           | Injection, idursulfase, 1 mg  |   |
|                             | J1786              | Cerezyme           | Injection, imiglucerase, 10 units   |   |
|                             | J1931              | Aldurazyme         | Injection, laronidase, 0.1 mg   |   |
|                             | J2504              | Adagen             | Injection, pegademase bovine, 25 iu   |   |
|                             | J3060              | Elelyso            | Injection, taliglucerase alfa, 10 units   |   |
|                             | J3385              | Vpriv              | Injection, velaglucerase alfa, 100 units  |   |
|                             |                    | S9357              | Cerezyme  | Home infusion therapy, enzyme replacement intravenous therapy; (e.g., imiglucerase); administrative services, professional pharmacy services, care coordination, and all necessary supplies and equipment (drugs and nursing visits coded separately), per diem |
|                             | Multiple sclerosis | J0202              | Lemtrada  | Injection, alemtuzumab, 1 mg  |
| J2323                       |                    | Tysabri            | Injection, natalizumab, 1 mg  |   |
| J9293                       |                    | Novantrone         | Injection, mitoXantrone hydrochloride, per 5 mg                                       |   |
| Ophthalmic disorder         | C9257              | Avastin            | Injection, bevacizumab, 0.25 mg   |   |
|                             | J0178              | Eylea              | Injection, aflibercept, 1 mg  |   |
|                             | J2503              | Macugen            | Injection, pegaptanib sodium, 0.3 mg  |   |
|                             | J2778              | Lucentis           | Injection, ranibizumab, 0.1 mg  |   |
|                             | J3396              | Visudyne           | Injection, verteporfin, 0.1 mg  |   |
|                             | J7311              | Retisert           | Fluocinolone acetonide, intravitreal implant  |   |
|                             | J7312              | OzurdeX            | Injection, deXamethasone, intravitreal implant, 0.1 mg                                |   |
|                             | J7313              | Iluvien            | Injection, fluocinolone acetonide, intravitreal implant, 0.01 mg                      |   |
|                             | J7316              | Jetrea             | Injection, ocriplasmin, 0.125 mg  |   |
| Osteoarthritis              | J7321              | Hyalgan, Supartz   | Hyaluronan or derivative, hyalgan or supartz, for intra-articular injection, per dose |   |
|                             | J7323              | EufleXXa           | Hyaluronan or derivative, eufleXXa, for intra-articular injection, per dose           |   |
|                             | J7324              | Dacarbazine        | Hyaluronan or derivative, orthovisc, for intra-articular injection, per dose          |   |
|                             | J7325              | Dacarbazine        | Hyaluronan or derivative, synvisc or synvisc-one, for intra-articular injection, 1 mg |   |
|                             | J7326              | Gel-one hyaluronan | Hyaluronan or derivative, gel-one, for intra-articular injection, per dose            |   |

Specialty UM Pre-Authorization Program  
Program Code Listing  
Texas Medicare

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| A-9 Specialty Pharmacy          |       |                 |  |
|---------------------------------|-------|-----------------|--|
| Therapeutic Category            | HCPC  | Brand Drug      | Code Description   |
|                                 | J7327 | Monovisc        | Hyaluronan or derivative, monovisc, for intra-articular injection, per dose  |
|                                 | Q9980 | Genvisc         | Hyaluronan or derivative, genvisc 850, for intra-articular injection, 1 mg   |
|                                 | J0897 | Xgeva, Prolia   | Injection, denosumab, 1 mg   |
|                                 | J3489 | Zoledronic Acid | Injection, zoledronic acid, 1 mg   |
| PNH                             | J1300 | Soliris         | Injection, eculizumab, 10 mg   |
| Pulmonary arterial hypertension | J1325 | Epoprostenol    | Injection, epoprostenol, 0.5 mg  |
|                                 | J3285 | Remodulin       | Injection, treprostinil, 1 mg  |
| RSV                             | 90378 | RSV antibody    | Respiratory syncytial virus, monoclonal antibody, recombinant, for intramuscular use, 50 mg, each  |
|                                 | S9562 | Synagis         | Home injectable therapy, palivizumab, including administrative services, professional pharmacy services, care coordination, and all necessary supplies and equipment (drugs and nursing visits coded separately), per diem |
| Spasticity disorder             | J0585 | BotoX           | Injection, onabotulinumtoXina, 1 unit  |
|                                 | J0586 | Dysport         | Injection, abobotulinumtoXina, 5 units   |
|                                 | J0587 | Myobloc         | Injection, rimabotulinumtoXinb, 100 units  |
|                                 | J0588 | Xeomin          | Injection, incobotulinumtoXin a, 1 unit  |
| Other                           | J0364 | Apokyn          | Injection, apomorphine hydrochloride, 1 mg   |
|                                 | J0775 | XiafleX         | Injection, collagenase, clostridium histolyticum, 0.01 mg  |
|                                 | J2315 | Vivitrol        | Injection, naltrexone, depot form, 1 mg  |
|                                 | J2502 | Signifor        | Injection, pasireotide long acting, 1 mg   |