

Centers for Medicare & Medicaid Services

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Local Coverage Determination (LCD): Intensity Modulated Radiation Therapy (IMRT) (L34080)

Please Note: Future Effective Date.

- Contractor Information

CONTRACTOR NAME	CONTRACT TYPE	CONTRACT NUMBER	JURISDICTION	STATE(S)
Noridian Healthcare Solutions, LLC	A and B MAC	02101 - MAC A	J - F	Alaska
Noridian Healthcare Solutions, LLC	A and B MAC	02102 - MAC B	J - F	Alaska
Noridian Healthcare Solutions, LLC	A and B MAC	02201 - MAC A	J - F	Idaho
Noridian Healthcare Solutions, LLC	A and B MAC	02202 - MAC B	J - F	Idaho
Noridian Healthcare Solutions, LLC	A and B MAC	02301 - MAC A	J - F	Oregon
Noridian Healthcare Solutions, LLC	A and B MAC	02302 - MAC B	J - F	Oregon
Noridian Healthcare Solutions, LLC	A and B MAC	02401 - MAC A	J - F	Washington
Noridian Healthcare Solutions, LLC	A and B MAC	02402 - MAC B	J - F	Washington
Noridian Healthcare Solutions, LLC	A and B MAC	03101 - MAC A	J - F	Arizona
Noridian Healthcare Solutions, LLC	A and B MAC	03102 - MAC B	J - F	Arizona
Noridian Healthcare Solutions, LLC	A and B MAC	03201 - MAC A	J - F	Montana
Noridian Healthcare Solutions, LLC	A and B MAC	03202 - MAC B	J - F	Montana
Noridian Healthcare Solutions, LLC	A and B MAC	03301 - MAC A	J - F	North Dakota

Noridian Healthcare Solutions, LLC	A and B MAC	03302 - MAC B	J - F	North Dakota
Noridian Healthcare Solutions, LLC	A and B MAC	03401 - MAC A	J - F	South Dakota
Noridian Healthcare Solutions, LLC	A and B MAC	03402 - MAC B	J - F	South Dakota
Noridian Healthcare Solutions, LLC	A and B MAC	03501 - MAC A	J - F	Utah
Noridian Healthcare Solutions, LLC	A and B MAC	03502 - MAC B	J - F	Utah
Noridian Healthcare Solutions, LLC	A and B MAC	03601 - MAC A	J - F	Wyoming
Noridian Healthcare Solutions, LLC	A and B MAC	03602 - MAC B	J - F	Wyoming

– LCD Information

Document Information

LCD ID
L34080

Original ICD-9 LCD ID
[L24318](#)

LCD Title
Intensity Modulated Radiation Therapy (IMRT)

Proposed LCD in Comment Period
N/A

Source Proposed LCD
N/A

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N/A

Retirement Date
N/A

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N/A

Notice Period End Date
N/A

Company.

CMS National Coverage Policy

Title XVIII of the Social Security Act, Section 1862(a)(1)(A). This section allows coverage and payment for only those services that are considered to be medically reasonable and necessary.

Title XVIII of the Social Security Act, Section 1833(e). This section prohibits Medicare payment for any claim which lacks the necessary information to process the claim.

IOM 100-04, chap 4, §200.3.

200.3 - Billing Codes for Intensity Modulated Radiation Therapy (IMRT) and Stereotactic Radiosurgery (SRS)

(Rev. 1445, Issued: 02-08-08; Effective: 01-01-08; Implementation: 03-10-08)

200.3.1 - Billing for IMRT Planning and Delivery

(Rev. 1445, Issued: 02-08-08; Effective: 01-01-08; Implementation: 03-10-08)

Coverage Guidance

Coverage Indications, Limitations, and/or Medical Necessity

Intensity Modulated Radiation Therapy (IMRT) is a computer-based method of planning for, and delivery of generally narrow, patient specific, spatially and often temporally modulated beams of radiation to solid tumors within a patient. IMRT planning and delivery uses an approach for obtaining the highly conformal dose distributions needed to irradiate complex targets positioned near, or invaginated by, sensitive normal tissues, thus improving the therapeutic ratios. IMRT delivers a more precise radiation dose to the tumor while sparing the surrounding normal tissues by using non-uniform radiation beam intensities that are determined by various computer-based optimization techniques.

The computer based optimization process is referred to as "inverse planning." Inverse planning develops a dose distribution based on the input of specific dose constraints for the planned treatment volume (PTV) and nearby clinical structures and is the beginning of the IMRT treatment planning process. The gross tumor volume (GTV), the PTV and surrounding normal tissues must be identified by a contouring procedure and the optimization must sample the dose with a grid spacing of 1 centimeter or less.

IMRT uses non-uniform and customized fluence distributions in treatment delivery. Delivery of IMRT requires either the use of a multi-leaf collimator (MLC) with leaves that project to a nominal 1 cm or less at the treatment unit isocenter or the use of compensator-based beam modulation treatment using three or more high resolution compensator convergent beam modulated fields. A MLC may use a dynamic (DMMLC) or segmented mode (SMLC) to create the 3-dimensional, intensity-modulated dose distribution. The average segments (or "steps") per gantry position required to meet IMRT delivery is five. The exact delivery method is not restricted as long as the particular technique chosen has the ability to model the highly modulated intensity patterns that result from the planning process described above (e.g. solid modulators or compensators may be an alternative to MLC). However, the use of a MLC just to produce simple one-dimensional ramp intensity distributions is excluded because the inverse planning process is not necessary to produce this simple intensity variation. Also, the use of a MLC does not, in itself, constitute or define IMRT (for example, it is possible to use a MLC for intermediate or complex, 3D conformal therapy).

Note also, traditional "field-in-field technique" which is neither MLC nor compensator-based is not considered IMRT but rather external beam therapy.

IMRT delivery imposes a more stringent requirement than conventional radiation therapy in terms of accounting for patient position and organ motion. Methods that account for organ motion include but are not limited to: 1) use of published studies on organ movement when developing the PTV, 2) image guided adaptive radiotherapy (e.g., ultrasound guided or portal-image guided setup with implanted fiducial markers), and 3) respiratory gating of diaphragm movement for thoracic and upper abdominal sites.

Indications of Coverage:

The decision process for using IMRT requires an understanding of accepted practices that take into account the risks and benefits of such therapy compared to conventional treatment techniques. While IMRT technology may empirically offer advances over conventional or three dimensional (3-D) conformal radiation, a comprehensive understanding of all consequences is required before applying this technology.

IMRT is not a replacement therapy for conventional and 3-D conformal radiation therapy methods. IMRT is considered reasonable and necessary in instances where sparing the surrounding normal tissue is essential and the patient has at least one of the following conditions met:

1. Important dose limiting structures adjacent to, but outside the PTV, are sufficiently close and require IMRT to assure safety and morbidity reduction.
2. An immediately adjacent volume has been irradiated and abutting portals must be established with high precision.

3. Gross Tumor Volume (GTV) margins are concave or convex and in close proximity to critical structures that must be protected to avoid unacceptable morbidity.
4. Only IMRT techniques would decrease the probability of grade 2 or grade 3 radiation toxicity as compared to conventional radiation in greater than 15% of radiated similar cases.

IMRT is an evolving technology and, as such, this IMRT LCD will be reviewed and updated as often as necessary. Currently, IMRT is indicated for primary brain tumors, brain metastasis, prostate cancer, lung cancer (with special provision for organ motion), pancreas cancer and other upper abdominal sites (with special provision for organ motion), spinal cord tumors, head and neck cancer, adrenal tumors, pituitary tumors and situations in which extremely high precision is required. Indications will include some left breast tumors due to risk to immediately adjacent cardiac and pericardial structures, though it would only rarely if ever be medically necessary for tumors of the right breast.

IMRT may be necessary in *some* gynecologic tumors or in *some* genitourinary tumors where its high precision is especially necessary to avoid immediately adjacent structures such as bowel or where there is a special need to avoid marrow. It may also be necessary in *some* lymphomas, malignant lymph nodes or sarcomas where anatomic location gives rise to a need for special care to avoid adjacent structures. Since these are likely to be only a relatively small fraction of gynecologic tumors, genitourinary tumors, lymphomas, malignant nodes or sarcomas, in each case particular care is required to document the necessity for IMRT.

Patient Specific IMRT Treatment Verification

The accepted methodology to perform the computer plan distribution verification aspect of the treatment planning process is to deliver the plan to an extended phantom that contains 2D film in planes that correspond to planes in the IMRT plan that can be compared. Since there are literally thousands of beamlets used in delivering IMRT dose patterns, delivering these plans to such a phantom will indicate any deviations from the physician's (radiation oncologist) prescription and corrective action can be taken before the patient is treated.

Generally, film phantoms can be calibrated such that film density corresponds to dose on the 2D film patterns when processed, so that a one-to-one comparison with the appropriate slice on the IMRT dose plan can be obtained. If not, ion chamber apertures can be built into the phantoms to make absolute dose measurements that can be compared to the appropriate points on the dose plan. These point dose measurements, however, are not a substitute for the 2D planar comparisons mentioned above.

Since this complex measurement system tests many of the parameters associated with the delivery of IMRT (multileaf collimator operation, gantry angle position, couch collision potential, etc.), it represents the "gold standard" in IMRT plan/delivery verification. Surrogates for the complete set of measurements with film phantom/ion chamber methods have been proposed. For those methods utilizing "step and shoot" or dynamic MultiLeaf Collimation (MLC), intensity map measurement in 2D have been proposed using film, electronic portal imaging devices or electronic 2D measuring tools. The plan intensity maps may be obtained in similar planes and compared to these measurements. If they align properly, the physician's prescription is assumed to be verified by this process. These measurements are made for each radiation field and appear to be an appropriate surrogate for the previously mentioned film phantom measurements. The time and intensity for this type of procedure closely approximates that of the film phantom technique and is acceptable.

Other methods are currently **not** acceptable surrogates for these measurements. Computer calculated machine settings (MU Calc, for example) for the radiation fields planned and used for IMRT do not test many of the parameters used in IMRT treatment delivery. This method consumes much less time and effort to be construed as IMRT treatment verification and, hence, does not qualify, by itself, as an acceptable surrogate to IMRT film phantom measurements, or the fluence mapping devices described earlier. It does not, for example, test the MLC performance during a treatment delivery. Noridian will welcome updated information from ASTRO/ACR and others on alternative IMRT verification methods as this becomes available. Until such time, other methods remain **not** acceptable.

Use of Clinical Treatment Planning in IMRT (CPT: 77261-77263) prior to the specific IMRT treatment plan (77301)

Clinical treatment planning includes interpretation of special testing, tumor localization, treatment volume determinations, treatment time/dosage determinations, choice of treatment modality(ies), selection of appropriate treatment devices, and other procedures such as concurrent or sequential chemotherapy or surgery. A separate charge for Clinical Treatment Planning may be appropriately claimed at the appropriate level of service (77261, 77262 or 77263), when based on separately-documented work itemizing the specific services provided. Review of records, pathology reports, and/or imaging studies are typically part of the basis for claiming either a higher-level E/M service preceding treatment planning, or as a component of this code, but this same work should not be counted as a basis for both services.

Use of Simulation-Aided Field Setting in IMRT (CPT 77280-77295)

Simulation-aided field setting complex (77290) during a course of IMRT is appropriate for the initial set up of the patient where an immobilization device may be constructed, isocenter(s) and volume of interest are determined, and CT or other imaging is obtained for subsequent reconstruction of target(s) and critical structure(s). CT and other imaging are separately coded (e.g. 77014), when necessary and performed. Also, a simple simulation (77280) may be appropriately provided and claimed *once* during a course of IMRT, either as a separate or at the time of the first fraction, where the record documents the simulation is for the purpose of field verification, and occurs on a separate day from and after 77290.

Use of Intensity modulated radiotherapy plan (77301), including dose volume histograms for target and critical structure partial tolerance specification.

Intensity modulated radiotherapy plan (77301) is a separate and distinct step in the process of care whose product is the computerized plan developed by the physician, medical physicist and dosimetrist and is required for the delivery of IMRT. Note that all exclusions that apply to 77295 apply to 77301.

Use of "Basic radiation dosimetry calculation, central axis depth dose calculation, TDF, NSD, gap calculation, off axis factor, tissue inhomogeneity factors, calculation of non-ionizing radiation surface and depth dose, as required during course of treatment, only when prescribed by the treating physician (CPT 77300)" in IMRT.

The IMRT plan (CPT 77301) produces monitor units (MUs) for each gantry angle. A *separate* claim for basic dosimetry (77300) is appropriate only when there is a separate and distinct service, prescribed by the treating physician, over and above those that are a part of the IMRT plan. 77300 is appropriate to describe a necessary, independent calculation(s) performed outside the parameters of, and on a different date of service than the IMRT plan (77301). It is not appropriate to automatically report this service for the computerized IMRT plan, or for the films, phantoms or equivalent done as a part of the 77301 or as may be a part of a separately performed and billed 77370 (see below).

Use of Teletherapy Isodose Plan in IMRT (CPT 77306, 77307, 77321)

A claim for a separate teletherapy isodose plan during a course of IMRT is appropriate only where the claim applies to another modality (e.g. an accompanying "boost" with external beam).

Use of Brachytherapy Isodose Plan in IMRT (CPT 77316-77318)

A claim for a separate brachytherapy isodose plan during a course of IMRT is appropriate only where the claim applies to a separate, accompanying brachytherapy modality.

Use of Special Dosimetry in IMRT (CPT 77331)

Dosimetry of the hybrid plan is part of the work and practice expense of 77301. Therefore, a claim for special dosimetry during a course of IMRT is appropriate only where the need for and use of the special dosimetry are carefully documented and occur at a time *other* than that necessary as a part of IMRT planning (77301) (e.g. a special check on a pacemaker site when into a course of therapy). Special dosimetry could also be appropriate where it applies to another modality (e.g. an accompanying "boost" with external beam).

Use of Treatment Devices (e.g., "Blocks") in IMRT (CPT: 77332-77334)

When a provider designs and constructs a treatment or immobilization device separate and distinct from the "device" derived from the computerized IMRT plan, the provider may then report 77332-77334, as appropriate, with modifier -59. The medical record must have documentation to support this use of modifier -59. A treatment device could also be appropriate where it applies to another modality (e.g. an accompanying "boost" with external beam).

The new CPT code 77338 is used for the MLC treatment devised used for IMRT. Normally it is used **once per IMRT plan**. In certain instances, e.g., when a radiotherapy boost is performed, it may be used more than once during a course of therapy. This CPT code 77338 is not to be used with compensator based IMRT.

Use of Continuing Medical Physics Consultation in IMRT ("weekly" physics QA: 77336)

Continuing medical physics is appropriate for the "weekly" continuing medical physics process and reports the work and oversight of the medical physicist in the care of the IMRT patient. It is not appropriately reported for work associated with the creation of the IMRT plan. It may also be reported if there are three or four fractions beyond a multiple of five at the end of a course of treatment.

Use of Special Medical Radiation Physics Consultation in IMRT (CPT 77370)

A claim for special medical radiation physics consultation during a course of IMRT is appropriate only where the need for and use of the consultation are carefully documented and occur at a time *other* than that necessary as a part of IMRT planning (e.g. a special physics assessment requested when already into a course of therapy). A medical physics consultation could also be appropriate where it applies to another modality (e.g. an accompanying "boost" with external beam).

Use of other Radiation Treatment Delivery on the same day as IMRT treatment delivery (G6015, G6016),

Radiation treatment delivery codes 77401, G6004-G6014, 77422-23, 0082T may not be used on the same date of service as IMRT treatment delivery (CPT G6016 or G6015). These other delivery codes may be used prior to or subsequent to an IMRT treatment course, for treatment with a different modality.

Radiation Treatment Management 77427

Radiation treatment management (77427) is reported by the physician for the "weekly" (defined as five-fraction) management of patients receiving radiation therapy, including IMRT. It may also be reported if there are three or four fractions beyond a multiple of five at the end of a course of treatment.

Use of "Special Treatment Procedure" in IMRT (CPT 77470)

A claim for "Special treatment procedure (eg, total body irradiation, hemibody radiation, per oral, endocavitary or

intraoperative cone irradiation)" would not be appropriate for services that are a necessary part of IMRT planning, but might rarely be appropriate during a course of IMRT where the respective treatment is being delivered as a separate therapy. Providers are cautioned that the use of this code implies a special treatment procedure with moderate physician work and very considerable practice expense (such as in TBI). This service is not to be claimed for much less significant "special procedures" that would more appropriately use 77499 or are a regular variant of IMRT or regular combination with IMRT.

Limitations of Coverage:

IMRT is not considered reasonable and necessary when at least one of the criteria listed in the "Indications and Limitations of Coverage and/or Medical Necessity" section or one of the diagnoses listed in the "ICD-10-CM Codes that Support Medical Necessity" section of this policy are not present.

Compliance with the provisions in this policy is subject to monitoring by post payment data analysis and subsequent medical review.

Summary of Evidence

N/A

**Analysis of Evidence
(Rationale for Determination)**

N/A

- Coding Information

Bill Type Codes:

Contractors may specify Bill Types to help providers identify those Bill Types typically used to report this service. Absence of a Bill Type does not guarantee that the policy does not apply to that Bill Type. Complete absence of all Bill Types indicates that coverage is not influenced by Bill Type and the policy should be assumed to apply equally to all claims.

999x	Not Applicable
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Revenue Codes:

Contractors may specify Revenue Codes to help providers identify those Revenue Codes typically used to report this service. In most instances Revenue Codes are purely advisory. Unless specified in the policy, services reported under other Revenue Codes are equally subject to this coverage determination. Complete absence of all Revenue Codes indicates that coverage is not influenced by Revenue Code and the policy should be assumed to apply equally to all Revenue Codes.

99999	Not Applicable
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CPT/HCPCS Codes

**Group 1 Paragraph:
N/A**

Group 1 Codes:

77301	INTENSITY MODULATED RADIOTHERAPY PLAN, INCLUDING DOSE-VOLUME HISTOGRAMS FOR TARGET AND CRITICAL STRUCTURE PARTIAL TOLERANCE SPECIFICATIONS
77338	MULTI-LEAF COLLIMATOR (MLC) DEVICE(S) FOR INTENSITY MODULATED RADIATION

THERAPY (IMRT), DESIGN AND CONSTRUCTION PER IMRT PLAN

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

ICD-10 Codes that Support Medical Necessity

Group 1 Paragraph:

Note: Diagnosis codes are based on the current ICD-10-CM codes that are effective at the time of LCD publication. Any updates to ICD-10-CM codes will be reviewed by Noridian; and coverage should not be presumed until the results of such review have been published/posted.

These are the **only** covered ICD-10-CM codes that support medical necessity:

The following ICD-10-CM codes may be used alone: (Only **one** diagnosis code is required for payment.)

Group 1 Codes:

ICD-10 CODES	DESCRIPTION
C01	Malignant neoplasm of base of tongue
C02.0	Malignant neoplasm of dorsal surface of tongue
C02.1	Malignant neoplasm of border of tongue
C02.2	Malignant neoplasm of ventral surface of tongue
C02.4	Malignant neoplasm of lingual tonsil
C02.8	Malignant neoplasm of overlapping sites of tongue
C04.0	Malignant neoplasm of anterior floor of mouth
C04.1	Malignant neoplasm of lateral floor of mouth
C04.8	Malignant neoplasm of overlapping sites of floor of mouth
C05.0	Malignant neoplasm of hard palate
C05.1	Malignant neoplasm of soft palate
C05.2	Malignant neoplasm of uvula
C05.8	Malignant neoplasm of overlapping sites of palate
C06.0	Malignant neoplasm of cheek mucosa
C06.1	Malignant neoplasm of vestibule of mouth
C06.2	Malignant neoplasm of retromolar area
C06.89	Malignant neoplasm of overlapping sites of other parts of mouth
C07	Malignant neoplasm of parotid gland
C08.0	Malignant neoplasm of submandibular gland

C08.1	Malignant neoplasm of sublingual gland
C09.0	Malignant neoplasm of tonsillar fossa
C09.1	Malignant neoplasm of tonsillar pillar (anterior) (posterior)
C09.8	Malignant neoplasm of overlapping sites of tonsil
C09.9	Malignant neoplasm of tonsil, unspecified
C10.0	Malignant neoplasm of vallecula
C10.1	Malignant neoplasm of anterior surface of epiglottis
C10.2	Malignant neoplasm of lateral wall of oropharynx
C10.3	Malignant neoplasm of posterior wall of oropharynx
C10.4	Malignant neoplasm of branchial cleft
C10.8	Malignant neoplasm of overlapping sites of oropharynx
C11.0	Malignant neoplasm of superior wall of nasopharynx
C11.1	Malignant neoplasm of posterior wall of nasopharynx
C11.2	Malignant neoplasm of lateral wall of nasopharynx
C11.3	Malignant neoplasm of anterior wall of nasopharynx
C11.8	Malignant neoplasm of overlapping sites of nasopharynx
C12	Malignant neoplasm of pyriform sinus
C13.0	Malignant neoplasm of postcricoid region
C13.1	Malignant neoplasm of aryepiglottic fold, hypopharyngeal aspect
C13.2	Malignant neoplasm of posterior wall of hypopharynx
C13.8	Malignant neoplasm of overlapping sites of hypopharynx
C14.2	Malignant neoplasm of Waldeyer's ring
C14.8	Malignant neoplasm of overlapping sites of lip, oral cavity and pharynx
C15.3	Malignant neoplasm of upper third of esophagus
C15.4	Malignant neoplasm of middle third of esophagus
C15.5	Malignant neoplasm of lower third of esophagus
C15.8	Malignant neoplasm of overlapping sites of esophagus
C18.0	Malignant neoplasm of cecum
C18.1	Malignant neoplasm of appendix
C18.2	Malignant neoplasm of ascending colon
C18.3	Malignant neoplasm of hepatic flexure
C18.4	Malignant neoplasm of transverse colon
C18.5	Malignant neoplasm of splenic flexure
C18.6	Malignant neoplasm of descending colon

C18.7	Malignant neoplasm of sigmoid colon
C18.8	Malignant neoplasm of overlapping sites of colon
C19	Malignant neoplasm of rectosigmoid junction
C20	Malignant neoplasm of rectum
C21.1	Malignant neoplasm of anal canal
C21.2	Malignant neoplasm of cloacogenic zone
C21.8	Malignant neoplasm of overlapping sites of rectum, anus and anal canal
C22.0	Liver cell carcinoma
C22.1	Intrahepatic bile duct carcinoma
C22.2	Hepatoblastoma
C22.3	Angiosarcoma of liver
C22.4	Other sarcomas of liver
C22.7	Other specified carcinomas of liver
C23	Malignant neoplasm of gallbladder
C24.0	Malignant neoplasm of extrahepatic bile duct
C24.1	Malignant neoplasm of ampulla of Vater
C24.8	Malignant neoplasm of overlapping sites of biliary tract
C25.0	Malignant neoplasm of head of pancreas
C25.1	Malignant neoplasm of body of pancreas
C25.2	Malignant neoplasm of tail of pancreas
C25.3	Malignant neoplasm of pancreatic duct
C25.4	Malignant neoplasm of endocrine pancreas
C25.7	Malignant neoplasm of other parts of pancreas
C25.8	Malignant neoplasm of overlapping sites of pancreas
C30.0	Malignant neoplasm of nasal cavity
C30.1	Malignant neoplasm of middle ear
C31.0	Malignant neoplasm of maxillary sinus
C31.1	Malignant neoplasm of ethmoidal sinus
C31.2	Malignant neoplasm of frontal sinus
C31.3	Malignant neoplasm of sphenoid sinus
C31.8	Malignant neoplasm of overlapping sites of accessory sinuses
C32.0	Malignant neoplasm of glottis
C32.1	Malignant neoplasm of supraglottis
C32.2	Malignant neoplasm of subglottis

C32.3	Malignant neoplasm of laryngeal cartilage
C32.8	Malignant neoplasm of overlapping sites of larynx
C33	Malignant neoplasm of trachea
C34.01	Malignant neoplasm of right main bronchus
C34.02	Malignant neoplasm of left main bronchus
C34.11	Malignant neoplasm of upper lobe, right bronchus or lung
C34.12	Malignant neoplasm of upper lobe, left bronchus or lung
C34.2	Malignant neoplasm of middle lobe, bronchus or lung
C34.31	Malignant neoplasm of lower lobe, right bronchus or lung
C34.32	Malignant neoplasm of lower lobe, left bronchus or lung
C34.81	Malignant neoplasm of overlapping sites of right bronchus and lung
C34.82	Malignant neoplasm of overlapping sites of left bronchus and lung
C34.91	Malignant neoplasm of unspecified part of right bronchus or lung
C34.92	Malignant neoplasm of unspecified part of left bronchus or lung
C37	Malignant neoplasm of thymus
C38.0	Malignant neoplasm of heart
C38.1	Malignant neoplasm of anterior mediastinum
C38.2	Malignant neoplasm of posterior mediastinum
C38.4	Malignant neoplasm of pleura
C38.8	Malignant neoplasm of overlapping sites of heart, mediastinum and pleura
C45.0	Mesothelioma of pleura
C45.1	Mesothelioma of peritoneum
C45.2	Mesothelioma of pericardium
C45.7	Mesothelioma of other sites
C48.0	Malignant neoplasm of retroperitoneum
C48.1	Malignant neoplasm of specified parts of peritoneum
C48.8	Malignant neoplasm of overlapping sites of retroperitoneum and peritoneum
C49.0	Malignant neoplasm of connective and soft tissue of head, face and neck
C49.3	Malignant neoplasm of connective and soft tissue of thorax
C49.4	Malignant neoplasm of connective and soft tissue of abdomen
C49.5	Malignant neoplasm of connective and soft tissue of pelvis
C49.8	Malignant neoplasm of overlapping sites of connective and soft tissue
C50.012*	Malignant neoplasm of nipple and areola, left female breast
C50.022*	Malignant neoplasm of nipple and areola, left male breast

C50.112	Malignant neoplasm of central portion of left female breast
C50.122*	Malignant neoplasm of central portion of left male breast
C50.212*	Malignant neoplasm of upper-inner quadrant of left female breast
C50.222*	Malignant neoplasm of upper-inner quadrant of left male breast
C50.312*	Malignant neoplasm of lower-inner quadrant of left female breast
C50.322*	Malignant neoplasm of lower-inner quadrant of left male breast
C50.412*	Malignant neoplasm of upper-outer quadrant of left female breast
C50.422*	Malignant neoplasm of upper-outer quadrant of left male breast
C50.512*	Malignant neoplasm of lower-outer quadrant of left female breast
C50.522*	Malignant neoplasm of lower-outer quadrant of left male breast
C50.612*	Malignant neoplasm of axillary tail of left female breast
C50.622*	Malignant neoplasm of axillary tail of left male breast
C50.812*	Malignant neoplasm of overlapping sites of left female breast
C50.822*	Malignant neoplasm of overlapping sites of left male breast
C61	Malignant neoplasm of prostate
C69.01	Malignant neoplasm of right conjunctiva
C69.02	Malignant neoplasm of left conjunctiva
C69.11	Malignant neoplasm of right cornea
C69.12	Malignant neoplasm of left cornea
C69.21	Malignant neoplasm of right retina
C69.22	Malignant neoplasm of left retina
C69.31	Malignant neoplasm of right choroid
C69.32	Malignant neoplasm of left choroid
C69.41	Malignant neoplasm of right ciliary body
C69.42	Malignant neoplasm of left ciliary body
C69.51	Malignant neoplasm of right lacrimal gland and duct
C69.52	Malignant neoplasm of left lacrimal gland and duct
C69.61	Malignant neoplasm of right orbit
C69.62	Malignant neoplasm of left orbit
C69.81	Malignant neoplasm of overlapping sites of right eye and adnexa
C69.82	Malignant neoplasm of overlapping sites of left eye and adnexa
C69.91	Malignant neoplasm of unspecified site of right eye
C69.92	Malignant neoplasm of unspecified site of left eye
C70.0	Malignant neoplasm of cerebral meninges

C70.1	Malignant neoplasm of spinal meninges
C71.0	Malignant neoplasm of cerebrum, except lobes and ventricles
C71.1	Malignant neoplasm of frontal lobe
C71.2	Malignant neoplasm of temporal lobe
C71.3	Malignant neoplasm of parietal lobe
C71.4	Malignant neoplasm of occipital lobe
C71.5	Malignant neoplasm of cerebral ventricle
C71.6	Malignant neoplasm of cerebellum
C71.7	Malignant neoplasm of brain stem
C71.8	Malignant neoplasm of overlapping sites of brain
C72.0	Malignant neoplasm of spinal cord
C72.1	Malignant neoplasm of cauda equina
C72.21	Malignant neoplasm of right olfactory nerve
C72.22	Malignant neoplasm of left olfactory nerve
C72.31	Malignant neoplasm of right optic nerve
C72.32	Malignant neoplasm of left optic nerve
C72.41	Malignant neoplasm of right acoustic nerve
C72.42	Malignant neoplasm of left acoustic nerve
C72.59	Malignant neoplasm of other cranial nerves
C73	Malignant neoplasm of thyroid gland
C74.01	Malignant neoplasm of cortex of right adrenal gland
C74.02	Malignant neoplasm of cortex of left adrenal gland
C74.11	Malignant neoplasm of medulla of right adrenal gland
C74.12	Malignant neoplasm of medulla of left adrenal gland
C74.91	Malignant neoplasm of unspecified part of right adrenal gland
C74.92	Malignant neoplasm of unspecified part of left adrenal gland
C75.0	Malignant neoplasm of parathyroid gland
C76.0	Malignant neoplasm of head, face and neck
C76.1	Malignant neoplasm of thorax
C76.2	Malignant neoplasm of abdomen
C76.3	Malignant neoplasm of pelvis
C76.41	Malignant neoplasm of right upper limb
C76.42	Malignant neoplasm of left upper limb
C76.51	Malignant neoplasm of right lower limb

C76.52	Malignant neoplasm of left lower limb
C77.0	Secondary and unspecified malignant neoplasm of lymph nodes of head, face and neck
C79.31	Secondary malignant neoplasm of brain
D32.0	Benign neoplasm of cerebral meninges
D33.3	Benign neoplasm of cranial nerves
D35.2	Benign neoplasm of pituitary gland
D35.3	Benign neoplasm of craniopharyngeal duct
D35.4	Benign neoplasm of pineal gland
D35.6	Benign neoplasm of aortic body and other paraganglia
Q28.2	Arteriovenous malformation of cerebral vessels
Q28.3	Other malformations of cerebral vessels

Group 1 Medical Necessity ICD-10 Codes Asterisk Explanation:

* ICD-10-CM Codes C50.012, C50.122, C50.212, C50.312, C50.412, C50.512, C50.612, C50.812, C50.022 and C50.222, C50.322, C50.422, C50.512, C50.522, C50.622 and C50.822 - Indications will include some left breast tumors due to risk to immediately adjacent cardiac and pericardial structures, though IMRT would only rarely if ever be medically necessary for tumors of the right breast.

Group 2 Paragraph:

Two diagnoses are required for payment.

The following ICD-10-CM codes must be used in pairs, i.e., a primary diagnosis from the listing below and a secondary diagnosis of Z74.09 **OR** Z78.9 (Other specified conditions influencing health status), must also be on the claim to indicate the record has a specific entry clarifying why IMRT is necessary.

Group 2 Codes:

ICD-10 CODES	DESCRIPTION
C52	Malignant neoplasm of vagina
C53.0	Malignant neoplasm of endocervix
C53.1	Malignant neoplasm of exocervix
C53.8	Malignant neoplasm of overlapping sites of cervix uteri
C54.0	Malignant neoplasm of isthmus uteri
C54.1	Malignant neoplasm of endometrium
C54.2	Malignant neoplasm of myometrium
C54.3	Malignant neoplasm of fundus uteri
C54.8	Malignant neoplasm of overlapping sites of corpus uteri
C56.1	Malignant neoplasm of right ovary
C56.2	Malignant neoplasm of left ovary

C57.01	Malignant neoplasm of right fallopian tube
C57.02	Malignant neoplasm of left fallopian tube
C57.11	Malignant neoplasm of right broad ligament
C57.12	Malignant neoplasm of left broad ligament
C57.21	Malignant neoplasm of right round ligament
C57.22	Malignant neoplasm of left round ligament
C57.3	Malignant neoplasm of parametrium
C57.7	Malignant neoplasm of other specified female genital organs
C57.8	Malignant neoplasm of overlapping sites of female genital organs
C67.0	Malignant neoplasm of trigone of bladder
C67.1	Malignant neoplasm of dome of bladder
C67.2	Malignant neoplasm of lateral wall of bladder
C67.3	Malignant neoplasm of anterior wall of bladder
C67.4	Malignant neoplasm of posterior wall of bladder
C67.5	Malignant neoplasm of bladder neck
C67.6	Malignant neoplasm of ureteric orifice
C67.7	Malignant neoplasm of urachus
C67.8	Malignant neoplasm of overlapping sites of bladder
C78.01	Secondary malignant neoplasm of right lung
C78.02	Secondary malignant neoplasm of left lung
C81.00	Nodular lymphocyte predominant Hodgkin lymphoma, unspecified site
C81.01	Nodular lymphocyte predominant Hodgkin lymphoma, lymph nodes of head, face, and neck
C81.02	Nodular lymphocyte predominant Hodgkin lymphoma, intrathoracic lymph nodes
C81.03	Nodular lymphocyte predominant Hodgkin lymphoma, intra-abdominal lymph nodes
C81.04	Nodular lymphocyte predominant Hodgkin lymphoma, lymph nodes of axilla and upper limb
C81.05	Nodular lymphocyte predominant Hodgkin lymphoma, lymph nodes of inguinal region and lower limb
C81.06	Nodular lymphocyte predominant Hodgkin lymphoma, intrapelvic lymph nodes
C81.07	Nodular lymphocyte predominant Hodgkin lymphoma, spleen
C81.08	Nodular lymphocyte predominant Hodgkin lymphoma, lymph nodes of multiple sites
C81.09	Nodular lymphocyte predominant Hodgkin lymphoma, extranodal and solid organ sites
C81.10	Nodular sclerosis Hodgkin lymphoma, unspecified site

C81.11	Nodular sclerosis Hodgkin lymphoma, lymph nodes of head, face, and neck
C81.12	Nodular sclerosis Hodgkin lymphoma, intrathoracic lymph nodes
C81.13	Nodular sclerosis Hodgkin lymphoma, intra-abdominal lymph nodes
C81.14	Nodular sclerosis Hodgkin lymphoma, lymph nodes of axilla and upper limb
C81.15	Nodular sclerosis Hodgkin lymphoma, lymph nodes of inguinal region and lower limb
C81.16	Nodular sclerosis Hodgkin lymphoma, intrapelvic lymph nodes
C81.17	Nodular sclerosis Hodgkin lymphoma, spleen
C81.18	Nodular sclerosis Hodgkin lymphoma, lymph nodes of multiple sites
C81.19	Nodular sclerosis Hodgkin lymphoma, extranodal and solid organ sites
C81.20	Mixed cellularity Hodgkin lymphoma, unspecified site
C81.21	Mixed cellularity Hodgkin lymphoma, lymph nodes of head, face, and neck
C81.22	Mixed cellularity Hodgkin lymphoma, intrathoracic lymph nodes
C81.23	Mixed cellularity Hodgkin lymphoma, intra-abdominal lymph nodes
C81.24	Mixed cellularity Hodgkin lymphoma, lymph nodes of axilla and upper limb
C81.25	Mixed cellularity Hodgkin lymphoma, lymph nodes of inguinal region and lower limb
C81.26	Mixed cellularity Hodgkin lymphoma, intrapelvic lymph nodes
C81.27	Mixed cellularity Hodgkin lymphoma, spleen
C81.28	Mixed cellularity Hodgkin lymphoma, lymph nodes of multiple sites
C81.29	Mixed cellularity Hodgkin lymphoma, extranodal and solid organ sites
C81.30	Lymphocyte depleted Hodgkin lymphoma, unspecified site
C81.31	Lymphocyte depleted Hodgkin lymphoma, lymph nodes of head, face, and neck
C81.32	Lymphocyte depleted Hodgkin lymphoma, intrathoracic lymph nodes
C81.33	Lymphocyte depleted Hodgkin lymphoma, intra-abdominal lymph nodes
C81.34	Lymphocyte depleted Hodgkin lymphoma, lymph nodes of axilla and upper limb
C81.35	Lymphocyte depleted Hodgkin lymphoma, lymph nodes of inguinal region and lower limb
C81.36	Lymphocyte depleted Hodgkin lymphoma, intrapelvic lymph nodes
C81.37	Lymphocyte depleted Hodgkin lymphoma, spleen
C81.38	Lymphocyte depleted Hodgkin lymphoma, lymph nodes of multiple sites
C81.39	Lymphocyte depleted Hodgkin lymphoma, extranodal and solid organ sites
C81.40	Lymphocyte-rich Hodgkin lymphoma, unspecified site
C81.41	Lymphocyte-rich Hodgkin lymphoma, lymph nodes of head, face, and neck
C81.42	Lymphocyte-rich Hodgkin lymphoma, intrathoracic lymph nodes

C81.43	Lymphocyte-rich Hodgkin lymphoma, intra-abdominal lymph nodes
C81.44	Lymphocyte-rich Hodgkin lymphoma, lymph nodes of axilla and upper limb
C81.45	Lymphocyte-rich Hodgkin lymphoma, lymph nodes of inguinal region and lower limb
C81.46	Lymphocyte-rich Hodgkin lymphoma, intrapelvic lymph nodes
C81.47	Lymphocyte-rich Hodgkin lymphoma, spleen
C81.48	Lymphocyte-rich Hodgkin lymphoma, lymph nodes of multiple sites
C81.49	Lymphocyte-rich Hodgkin lymphoma, extranodal and solid organ sites
C81.70	Other Hodgkin lymphoma, unspecified site
C81.71	Other Hodgkin lymphoma, lymph nodes of head, face, and neck
C81.72	Other Hodgkin lymphoma, intrathoracic lymph nodes
C81.73	Other Hodgkin lymphoma, intra-abdominal lymph nodes
C81.74	Other Hodgkin lymphoma, lymph nodes of axilla and upper limb
C81.75	Other Hodgkin lymphoma, lymph nodes of inguinal region and lower limb
C81.76	Other Hodgkin lymphoma, intrapelvic lymph nodes
C81.77	Other Hodgkin lymphoma, spleen
C81.78	Other Hodgkin lymphoma, lymph nodes of multiple sites
C81.79	Other Hodgkin lymphoma, extranodal and solid organ sites
C81.90	Hodgkin lymphoma, unspecified, unspecified site
C81.91	Hodgkin lymphoma, unspecified, lymph nodes of head, face, and neck
C81.92	Hodgkin lymphoma, unspecified, intrathoracic lymph nodes
C81.93	Hodgkin lymphoma, unspecified, intra-abdominal lymph nodes
C81.94	Hodgkin lymphoma, unspecified, lymph nodes of axilla and upper limb
C81.95	Hodgkin lymphoma, unspecified, lymph nodes of inguinal region and lower limb
C81.96	Hodgkin lymphoma, unspecified, intrapelvic lymph nodes
C81.97	Hodgkin lymphoma, unspecified, spleen
C81.98	Hodgkin lymphoma, unspecified, lymph nodes of multiple sites
C81.99	Hodgkin lymphoma, unspecified, extranodal and solid organ sites
C82.00	Follicular lymphoma grade I, unspecified site
C82.01	Follicular lymphoma grade I, lymph nodes of head, face, and neck
C82.02	Follicular lymphoma grade I, intrathoracic lymph nodes
C82.03	Follicular lymphoma grade I, intra-abdominal lymph nodes
C82.04	Follicular lymphoma grade I, lymph nodes of axilla and upper limb
C82.05	Follicular lymphoma grade I, lymph nodes of inguinal region and lower limb

C82.06	Follicular lymphoma grade I, intrapelvic lymph nodes
C82.07	Follicular lymphoma grade I, spleen
C82.08	Follicular lymphoma grade I, lymph nodes of multiple sites
C82.09	Follicular lymphoma grade I, extranodal and solid organ sites
C82.10	Follicular lymphoma grade II, unspecified site
C82.11	Follicular lymphoma grade II, lymph nodes of head, face, and neck
C82.12	Follicular lymphoma grade II, intrathoracic lymph nodes
C82.13	Follicular lymphoma grade II, intra-abdominal lymph nodes
C82.14	Follicular lymphoma grade II, lymph nodes of axilla and upper limb
C82.15	Follicular lymphoma grade II, lymph nodes of inguinal region and lower limb
C82.16	Follicular lymphoma grade II, intrapelvic lymph nodes
C82.17	Follicular lymphoma grade II, spleen
C82.18	Follicular lymphoma grade II, lymph nodes of multiple sites
C82.19	Follicular lymphoma grade II, extranodal and solid organ sites
C82.20	Follicular lymphoma grade III, unspecified, unspecified site
C82.21	Follicular lymphoma grade III, unspecified, lymph nodes of head, face, and neck
C82.22	Follicular lymphoma grade III, unspecified, intrathoracic lymph nodes
C82.23	Follicular lymphoma grade III, unspecified, intra-abdominal lymph nodes
C82.24	Follicular lymphoma grade III, unspecified, lymph nodes of axilla and upper limb
C82.25	Follicular lymphoma grade III, unspecified, lymph nodes of inguinal region and lower limb
C82.26	Follicular lymphoma grade III, unspecified, intrapelvic lymph nodes
C82.27	Follicular lymphoma grade III, unspecified, spleen
C82.28	Follicular lymphoma grade III, unspecified, lymph nodes of multiple sites
C82.29	Follicular lymphoma grade III, unspecified, extranodal and solid organ sites
C82.30	Follicular lymphoma grade IIIa, unspecified site
C82.31	Follicular lymphoma grade IIIa, lymph nodes of head, face, and neck
C82.32	Follicular lymphoma grade IIIa, intrathoracic lymph nodes
C82.33	Follicular lymphoma grade IIIa, intra-abdominal lymph nodes
C82.34	Follicular lymphoma grade IIIa, lymph nodes of axilla and upper limb
C82.35	Follicular lymphoma grade IIIa, lymph nodes of inguinal region and lower limb
C82.36	Follicular lymphoma grade IIIa, intrapelvic lymph nodes
C82.37	Follicular lymphoma grade IIIa, spleen
C82.38	Follicular lymphoma grade IIIa, lymph nodes of multiple sites

C82.39	Follicular lymphoma grade IIIa, extranodal and solid organ sites
C82.40	Follicular lymphoma grade IIIb, unspecified site
C82.41	Follicular lymphoma grade IIIb, lymph nodes of head, face, and neck
C82.42	Follicular lymphoma grade IIIb, intrathoracic lymph nodes
C82.43	Follicular lymphoma grade IIIb, intra-abdominal lymph nodes
C82.44	Follicular lymphoma grade IIIb, lymph nodes of axilla and upper limb
C82.45	Follicular lymphoma grade IIIb, lymph nodes of inguinal region and lower limb
C82.46	Follicular lymphoma grade IIIb, intrapelvic lymph nodes
C82.47	Follicular lymphoma grade IIIb, spleen
C82.48	Follicular lymphoma grade IIIb, lymph nodes of multiple sites
C82.49	Follicular lymphoma grade IIIb, extranodal and solid organ sites
C82.50	Diffuse follicle center lymphoma, unspecified site
C82.51	Diffuse follicle center lymphoma, lymph nodes of head, face, and neck
C82.52	Diffuse follicle center lymphoma, intrathoracic lymph nodes
C82.53	Diffuse follicle center lymphoma, intra-abdominal lymph nodes
C82.54	Diffuse follicle center lymphoma, lymph nodes of axilla and upper limb
C82.55	Diffuse follicle center lymphoma, lymph nodes of inguinal region and lower limb
C82.56	Diffuse follicle center lymphoma, intrapelvic lymph nodes
C82.57	Diffuse follicle center lymphoma, spleen
C82.58	Diffuse follicle center lymphoma, lymph nodes of multiple sites
C82.59	Diffuse follicle center lymphoma, extranodal and solid organ sites
C82.60	Cutaneous follicle center lymphoma, unspecified site
C82.61	Cutaneous follicle center lymphoma, lymph nodes of head, face, and neck
C82.62	Cutaneous follicle center lymphoma, intrathoracic lymph nodes
C82.63	Cutaneous follicle center lymphoma, intra-abdominal lymph nodes
C82.64	Cutaneous follicle center lymphoma, lymph nodes of axilla and upper limb
C82.65	Cutaneous follicle center lymphoma, lymph nodes of inguinal region and lower limb
C82.66	Cutaneous follicle center lymphoma, intrapelvic lymph nodes
C82.67	Cutaneous follicle center lymphoma, spleen
C82.68	Cutaneous follicle center lymphoma, lymph nodes of multiple sites
C82.69	Cutaneous follicle center lymphoma, extranodal and solid organ sites
C82.80	Other types of follicular lymphoma, unspecified site
C82.81	Other types of follicular lymphoma, lymph nodes of head, face, and neck

C82.82	Other types of follicular lymphoma, intrathoracic lymph nodes
C82.83	Other types of follicular lymphoma, intra-abdominal lymph nodes
C82.84	Other types of follicular lymphoma, lymph nodes of axilla and upper limb
C82.85	Other types of follicular lymphoma, lymph nodes of inguinal region and lower limb
C82.86	Other types of follicular lymphoma, intrapelvic lymph nodes
C82.87	Other types of follicular lymphoma, spleen
C82.88	Other types of follicular lymphoma, lymph nodes of multiple sites
C82.89	Other types of follicular lymphoma, extranodal and solid organ sites
C82.90	Follicular lymphoma, unspecified, unspecified site
C82.91	Follicular lymphoma, unspecified, lymph nodes of head, face, and neck
C82.92	Follicular lymphoma, unspecified, intrathoracic lymph nodes
C82.93	Follicular lymphoma, unspecified, intra-abdominal lymph nodes
C82.94	Follicular lymphoma, unspecified, lymph nodes of axilla and upper limb
C82.95	Follicular lymphoma, unspecified, lymph nodes of inguinal region and lower limb
C82.96	Follicular lymphoma, unspecified, intrapelvic lymph nodes
C82.97	Follicular lymphoma, unspecified, spleen
C82.98	Follicular lymphoma, unspecified, lymph nodes of multiple sites
C82.99	Follicular lymphoma, unspecified, extranodal and solid organ sites
C83.00	Small cell B-cell lymphoma, unspecified site
C83.01	Small cell B-cell lymphoma, lymph nodes of head, face, and neck
C83.02	Small cell B-cell lymphoma, intrathoracic lymph nodes
C83.03	Small cell B-cell lymphoma, intra-abdominal lymph nodes
C83.04	Small cell B-cell lymphoma, lymph nodes of axilla and upper limb
C83.05	Small cell B-cell lymphoma, lymph nodes of inguinal region and lower limb
C83.06	Small cell B-cell lymphoma, intrapelvic lymph nodes
C83.07	Small cell B-cell lymphoma, spleen
C83.08	Small cell B-cell lymphoma, lymph nodes of multiple sites
C83.09	Small cell B-cell lymphoma, extranodal and solid organ sites
C83.30	Diffuse large B-cell lymphoma, unspecified site
C83.31	Diffuse large B-cell lymphoma, lymph nodes of head, face, and neck
C83.32	Diffuse large B-cell lymphoma, intrathoracic lymph nodes
C83.33	Diffuse large B-cell lymphoma, intra-abdominal lymph nodes
C83.34	Diffuse large B-cell lymphoma, lymph nodes of axilla and upper limb
C83.35	Diffuse large B-cell lymphoma, lymph nodes of inguinal region and lower limb

C83.36	Diffuse large B-cell lymphoma, intrapelvic lymph nodes
C83.37	Diffuse large B-cell lymphoma, spleen
C83.38	Diffuse large B-cell lymphoma, lymph nodes of multiple sites
C83.39	Diffuse large B-cell lymphoma, extranodal and solid organ sites
C83.50	Lymphoblastic (diffuse) lymphoma, unspecified site
C83.51	Lymphoblastic (diffuse) lymphoma, lymph nodes of head, face, and neck
C83.52	Lymphoblastic (diffuse) lymphoma, intrathoracic lymph nodes
C83.53	Lymphoblastic (diffuse) lymphoma, intra-abdominal lymph nodes
C83.54	Lymphoblastic (diffuse) lymphoma, lymph nodes of axilla and upper limb
C83.55	Lymphoblastic (diffuse) lymphoma, lymph nodes of inguinal region and lower limb
C83.56	Lymphoblastic (diffuse) lymphoma, intrapelvic lymph nodes
C83.57	Lymphoblastic (diffuse) lymphoma, spleen
C83.58	Lymphoblastic (diffuse) lymphoma, lymph nodes of multiple sites
C83.59	Lymphoblastic (diffuse) lymphoma, extranodal and solid organ sites
C83.70	Burkitt lymphoma, unspecified site
C83.71	Burkitt lymphoma, lymph nodes of head, face, and neck
C83.72	Burkitt lymphoma, intrathoracic lymph nodes
C83.73	Burkitt lymphoma, intra-abdominal lymph nodes
C83.74	Burkitt lymphoma, lymph nodes of axilla and upper limb
C83.75	Burkitt lymphoma, lymph nodes of inguinal region and lower limb
C83.76	Burkitt lymphoma, intrapelvic lymph nodes
C83.77	Burkitt lymphoma, spleen
C83.78	Burkitt lymphoma, lymph nodes of multiple sites
C83.79	Burkitt lymphoma, extranodal and solid organ sites
C83.80	Other non-follicular lymphoma, unspecified site
C83.81	Other non-follicular lymphoma, lymph nodes of head, face, and neck
C83.82	Other non-follicular lymphoma, intrathoracic lymph nodes
C83.83	Other non-follicular lymphoma, intra-abdominal lymph nodes
C83.84	Other non-follicular lymphoma, lymph nodes of axilla and upper limb
C83.85	Other non-follicular lymphoma, lymph nodes of inguinal region and lower limb
C83.86	Other non-follicular lymphoma, intrapelvic lymph nodes
C83.87	Other non-follicular lymphoma, spleen
C83.88	Other non-follicular lymphoma, lymph nodes of multiple sites
C83.89	Other non-follicular lymphoma, extranodal and solid organ sites

C83.90	Non-follicular (diffuse) lymphoma, unspecified, unspecified site
C83.91	Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of head, face, and neck
C83.92	Non-follicular (diffuse) lymphoma, unspecified, intrathoracic lymph nodes
C83.93	Non-follicular (diffuse) lymphoma, unspecified, intra-abdominal lymph nodes
C83.94	Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of axilla and upper limb
C83.95	Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of inguinal region and lower limb
C83.96	Non-follicular (diffuse) lymphoma, unspecified, intrapelvic lymph nodes
C83.97	Non-follicular (diffuse) lymphoma, unspecified, spleen
C83.98	Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of multiple sites
C83.99	Non-follicular (diffuse) lymphoma, unspecified, extranodal and solid organ sites
C84.01	Mycosis fungoides, lymph nodes of head, face, and neck
C84.02	Mycosis fungoides, intrathoracic lymph nodes
C84.03	Mycosis fungoides, intra-abdominal lymph nodes
C84.04	Mycosis fungoides, lymph nodes of axilla and upper limb
C84.05	Mycosis fungoides, lymph nodes of inguinal region and lower limb
C84.06	Mycosis fungoides, intrapelvic lymph nodes
C84.07	Mycosis fungoides, spleen
C84.08	Mycosis fungoides, lymph nodes of multiple sites
C84.09	Mycosis fungoides, extranodal and solid organ sites
C84.11	Sezary disease, lymph nodes of head, face, and neck
C84.12	Sezary disease, intrathoracic lymph nodes
C84.13	Sezary disease, intra-abdominal lymph nodes
C84.14	Sezary disease, lymph nodes of axilla and upper limb
C84.15	Sezary disease, lymph nodes of inguinal region and lower limb
C84.16	Sezary disease, intrapelvic lymph nodes
C84.17	Sezary disease, spleen
C84.18	Sezary disease, lymph nodes of multiple sites
C84.19	Sezary disease, extranodal and solid organ sites
C84.40	Peripheral T-cell lymphoma, not classified, unspecified site
C84.41	Peripheral T-cell lymphoma, not classified, lymph nodes of head, face, and neck
C84.42	Peripheral T-cell lymphoma, not classified, intrathoracic lymph nodes
C84.43	Peripheral T-cell lymphoma, not classified, intra-abdominal lymph nodes

C84.44	Peripheral T-cell lymphoma, not classified, lymph nodes of axilla and upper limb
C84.45	Peripheral T-cell lymphoma, not classified, lymph nodes of inguinal region and lower limb
C84.46	Peripheral T-cell lymphoma, not classified, intrapelvic lymph nodes
C84.47	Peripheral T-cell lymphoma, not classified, spleen
C84.48	Peripheral T-cell lymphoma, not classified, lymph nodes of multiple sites
C84.49	Peripheral T-cell lymphoma, not classified, extranodal and solid organ sites
C84.A0	Cutaneous T-cell lymphoma, unspecified, unspecified site
C84.A1	Cutaneous T-cell lymphoma, unspecified lymph nodes of head, face, and neck
C84.A2	Cutaneous T-cell lymphoma, unspecified, intrathoracic lymph nodes
C84.A3	Cutaneous T-cell lymphoma, unspecified, intra-abdominal lymph nodes
C84.A4	Cutaneous T-cell lymphoma, unspecified, lymph nodes of axilla and upper limb
C84.A5	Cutaneous T-cell lymphoma, unspecified, lymph nodes of inguinal region and lower limb
C84.A6	Cutaneous T-cell lymphoma, unspecified, intrapelvic lymph nodes
C84.A7	Cutaneous T-cell lymphoma, unspecified, spleen
C84.A8	Cutaneous T-cell lymphoma, unspecified, lymph nodes of multiple sites
C84.A9	Cutaneous T-cell lymphoma, unspecified, extranodal and solid organ sites
C84.Z0	Other mature T/NK-cell lymphomas, unspecified site
C84.Z1	Other mature T/NK-cell lymphomas, lymph nodes of head, face, and neck
C84.Z2	Other mature T/NK-cell lymphomas, intrathoracic lymph nodes
C84.Z3	Other mature T/NK-cell lymphomas, intra-abdominal lymph nodes
C84.Z4	Other mature T/NK-cell lymphomas, lymph nodes of axilla and upper limb
C84.Z5	Other mature T/NK-cell lymphomas, lymph nodes of inguinal region and lower limb
C84.Z6	Other mature T/NK-cell lymphomas, intrapelvic lymph nodes
C84.Z7	Other mature T/NK-cell lymphomas, spleen
C84.Z8	Other mature T/NK-cell lymphomas, lymph nodes of multiple sites
C84.Z9	Other mature T/NK-cell lymphomas, extranodal and solid organ sites
C84.90	Mature T/NK-cell lymphomas, unspecified, unspecified site
C84.91	Mature T/NK-cell lymphomas, unspecified, lymph nodes of head, face, and neck
C84.92	Mature T/NK-cell lymphomas, unspecified, intrathoracic lymph nodes
C84.93	Mature T/NK-cell lymphomas, unspecified, intra-abdominal lymph nodes
C84.94	Mature T/NK-cell lymphomas, unspecified, lymph nodes of axilla and upper limb
C84.95	Mature T/NK-cell lymphomas, unspecified, lymph nodes of inguinal region and lower limb

C84.96	Mature T/NK-cell lymphomas, unspecified, intrapelvic lymph nodes
C84.97	Mature T/NK-cell lymphomas, unspecified, spleen
C84.98	Mature T/NK-cell lymphomas, unspecified, lymph nodes of multiple sites
C84.99	Mature T/NK-cell lymphomas, unspecified, extranodal and solid organ sites
C85.10	Unspecified B-cell lymphoma, unspecified site
C85.11	Unspecified B-cell lymphoma, lymph nodes of head, face, and neck
C85.12	Unspecified B-cell lymphoma, intrathoracic lymph nodes
C85.13	Unspecified B-cell lymphoma, intra-abdominal lymph nodes
C85.14	Unspecified B-cell lymphoma, lymph nodes of axilla and upper limb
C85.15	Unspecified B-cell lymphoma, lymph nodes of inguinal region and lower limb
C85.16	Unspecified B-cell lymphoma, intrapelvic lymph nodes
C85.17	Unspecified B-cell lymphoma, spleen
C85.18	Unspecified B-cell lymphoma, lymph nodes of multiple sites
C85.19	Unspecified B-cell lymphoma, extranodal and solid organ sites
C85.20	Mediastinal (thymic) large B-cell lymphoma, unspecified site
C85.21	Mediastinal (thymic) large B-cell lymphoma, lymph nodes of head, face, and neck
C85.22	Mediastinal (thymic) large B-cell lymphoma, intrathoracic lymph nodes
C85.23	Mediastinal (thymic) large B-cell lymphoma, intra-abdominal lymph nodes
C85.24	Mediastinal (thymic) large B-cell lymphoma, lymph nodes of axilla and upper limb
C85.25	Mediastinal (thymic) large B-cell lymphoma, lymph nodes of inguinal region and lower limb
C85.26	Mediastinal (thymic) large B-cell lymphoma, intrapelvic lymph nodes
C85.27	Mediastinal (thymic) large B-cell lymphoma, spleen
C85.28	Mediastinal (thymic) large B-cell lymphoma, lymph nodes of multiple sites
C85.29	Mediastinal (thymic) large B-cell lymphoma, extranodal and solid organ sites
C85.80	Other specified types of non-Hodgkin lymphoma, unspecified site
C85.81	Other specified types of non-Hodgkin lymphoma, lymph nodes of head, face, and neck
C85.82	Other specified types of non-Hodgkin lymphoma, intrathoracic lymph nodes
C85.83	Other specified types of non-Hodgkin lymphoma, intra-abdominal lymph nodes
C85.84	Other specified types of non-Hodgkin lymphoma, lymph nodes of axilla and upper limb
C85.85	Other specified types of non-Hodgkin lymphoma, lymph nodes of inguinal region and lower limb
C85.86	Other specified types of non-Hodgkin lymphoma, intrapelvic lymph nodes
C85.87	Other specified types of non-Hodgkin lymphoma, spleen

C85.88	Other specified types of non-Hodgkin lymphoma, lymph nodes of multiple sites
C85.89	Other specified types of non-Hodgkin lymphoma, extranodal and solid organ sites
C85.90	Non-Hodgkin lymphoma, unspecified, unspecified site
C85.91	Non-Hodgkin lymphoma, unspecified, lymph nodes of head, face, and neck
C85.92	Non-Hodgkin lymphoma, unspecified, intrathoracic lymph nodes
C85.93	Non-Hodgkin lymphoma, unspecified, intra-abdominal lymph nodes
C85.94	Non-Hodgkin lymphoma, unspecified, lymph nodes of axilla and upper limb
C85.95	Non-Hodgkin lymphoma, unspecified, lymph nodes of inguinal region and lower limb
C85.96	Non-Hodgkin lymphoma, unspecified, intrapelvic lymph nodes
C85.97	Non-Hodgkin lymphoma, unspecified, spleen
C85.98	Non-Hodgkin lymphoma, unspecified, lymph nodes of multiple sites
C85.99	Non-Hodgkin lymphoma, unspecified, extranodal and solid organ sites
C86.0	Extranodal NK/T-cell lymphoma, nasal type
C86.1	Hepatosplenic T-cell lymphoma
C86.2	Enteropathy-type (intestinal) T-cell lymphoma
C86.3	Subcutaneous panniculitis-like T-cell lymphoma
C86.4	Blastic NK-cell lymphoma
C86.5	Angioimmunoblastic T-cell lymphoma
C86.6	Primary cutaneous CD30-positive T-cell proliferations
C91.40	Hairy cell leukemia not having achieved remission
C91.41	Hairy cell leukemia, in remission
C91.42	Hairy cell leukemia, in relapse
C96.0	Multifocal and multisystemic (disseminated) Langerhans-cell histiocytosis
C96.20	Malignant mast cell neoplasm, unspecified
C96.21	Aggressive systemic mastocytosis
C96.22	Mast cell sarcoma
C96.29	Other malignant mast cell neoplasm
C96.4	Sarcoma of dendritic cells (accessory cells)
C96.A	Histiocytic sarcoma
C96.Z	Other specified malignant neoplasms of lymphoid, hematopoietic and related tissue
C96.9	Malignant neoplasm of lymphoid, hematopoietic and related tissue, unspecified
Z74.09*	Other reduced mobility
Z78.9*	Other specified health status

Group 2 Medical Necessity ICD-10 Codes Asterisk Explanation:

*ICD-10-CM Z74.09 **OR** Z78.9 must be billed as a secondary diagnosis to the non-asterisked ICD-10-CM codes listed above as primary diagnoses. (Two diagnoses are required for payment) - A relatively small number of gynecologic tumors, some lymphomas, some malignant lymph nodes and some sarcomas may need the added precision of IMRT in order to avoid critical adjacent structures. For these indications to be accepted for IMRT, the separate ICD-10-CM code Z74.09 **OR** Z78.9 (Other specified conditions influencing health status) must also be on the claim to indicate the record has a specific entry clarifying why IMRT is necessary. Records must be submitted to Medicare on request.

ICD-10 Codes that DO NOT Support Medical Necessity**Group 1 Paragraph:**

All ICD-10-CM codes not listed in this policy under ICD-10-CM Codes that Support Medical Necessity above.

Group 1 Codes:

N/A

ICD-10 Additional Information

All ICD-10-CM codes not listed in this policy under ICD-10-CM Codes that Support Medical Necessity above. However, as IMRT is an evolving technology, Noridian will accept recommendations from radiation oncologists for expanded coverage in this LCD. However, these requests for reconsideration must be submitted as a formal reconsideration (See www.noridianmedicare.com for the reconsideration process.) and must be accompanied by complete copies of relevant peer-reviewed literature that support the recommendation. Further, Noridian will give individual consideration to those claims that have been denied but might be justified by the peer-reviewed literature.

– General Information**Associated Information**

Documentation in the patient's medical records **must** support:

1. The reasonable and necessary requirements as outlined under the Indications and Limitations of Coverage and/or Medical Necessity section of this policy and must be available to Medicare for review upon request.
2. The prescription must define the goals and requirements of the treatment plan, including the specific dose constraints for the target(s) and nearby critical structures.
3. A statement by the treating physician documenting the special need for performing IMRT on the patient in question, rather than performing conventional or 3-dimensional treatment planning and delivery.
4. Signed and dated IMRT inverse plan that meets prescribed dose constraints for the planning target volume (PTV) and surrounding normal tissue using either dynamic multi-leaf collimator (DMLC) or segmented multi-leaf collimator (SMLC) (average number of "steps" required to meet IMRT delivery is 5), or inverse planned IMRT solid compensators to achieve intensity modulation radiation delivery.
5. The target verification methodology that includes the following:
 - a. Documentation of the clinical treatment volume (CTV) and the planning target volume (PTV).
 - b. Documentation of immobilization and patient positioning.
 - c. Means of dose verification and secondary means of verification.
6. The monitor units (MUs) generated by the IMRT treatment plan must be independently checked before the patient's first treatment.
7. Documentation of fluence distributions re-computed in a phantom is required, or an equivalent methodology consistent with Patient Specific IMRT Treatment Verification described above.

8. Documentation that accounts for structures moving in and out of high and low dose regions created by respiration. Voluntary breath holding **is not** considered appropriate and the solution for movement can best be accomplished with gating technology.

9. Documentation for clinical treatment planning (77261-77263) should evidence the criteria are met which are outlined in The ASTRO/ACR Guide to Radiation Oncology Coding 2005 (p.38).

The HCPCS/CPT code(s) may be subject to Correct Coding Initiative (CCI) edits. This policy does not take precedence over CCI edits. Please refer to the CCI for correct coding guidelines and specific applicable code combinations prior to billing Medicare.

When the documentation does not meet the criteria for the service rendered or the documentation does not establish the medical necessity for the services, such services will be denied as not reasonable and necessary under Section 1862(a)(1) of the Social Security Act.

The Section titled "Does the 'CPT 30% Rule' apply" needs clarification. This rule comes from the AMA (American Medical Association), the organization that holds the copyrights for all CPT codes. The rule states that if, in a given section (e.g., **surgery**) or subsection (e.g., surgery, **integumentary**) of the CPT Manual, more than 30% of the codes are listed in the LMRP, then the short descriptors must be used rather than the long descriptors found in the CPT Manual.

This policy is subject to the reasonable and necessary guidelines and the limitation of liability provision.

Sources of Information

? American College of Radiology (ACR) Radiation Oncology Carrier Advisory Committee (CAC) Network Model Policy on Intensity Modulated Radiation Therapy (IMRT), which had also been reviewed and approved by The American Society for Therapeutic Radiation and Oncology (ASTRO) Regulatory Subcommittee and Health Policy and Economics Committee (HPE), received by Noridian May 17, 2005.

- The ACR/ASTRO Guide to Radiation Oncology Coding 2005.
- The ASTRO Position on Specifying Patient Specific Treatment Verification in IMRT, October 2004.
- Other contractors' LCDs
- Noridian Carrier Advisory Committee Members

Bibliography

N/A

- Revision History Information

REVISION HISTORY DATE	REVISION HISTORY NUMBER	REVISION HISTORY EXPLANATION	REASON(S) FOR CHANGE
10/01/2017	R7	<p>08/20/2017: At this time 21st Century Cures Act will apply to new and revised LCDs that restrict coverage which requires comment and notice. This revision is not a restriction to the coverage determination; and, therefore not all the fields included on the LCD are applicable as noted in this policy.</p> <p>LCD is revised to add the following diagnoses effective 10/01/2017:</p> <p>C78.01 and C78.02, per reconsideration request.</p> <p>C96.20, C96.21, C96.22 and C96.29 are added and C96.2 is deleted per the 2017 ICD-10 annual update.</p> <p>C77.0 was included in Group I and</p>	<ul style="list-style-type: none"> • Revisions Due To ICD-10-CM Code Changes • Reconsideration Request

		in Group II. ICD-10 code is removed from Group II and does not require a secondary diagnosis.	
10/01/2015	R6	Group 2 diagnosis listing: LCD is revised to clarify that Z74.09 OR Z78.9 is required as a secondary diagnosis rather than both being required. The Part A LCD L34251 is retired effective 8/24/16 and combined into the existing Part B LCD so that both will have the same MCD LCD number.	<ul style="list-style-type: none"> • Typographical Error
10/01/2015	R5	Group 1: Medical Necessity ICD-10 Codes Asterisk Explanation is revised to add "necessary for tumors of the right breast." to the end of the sentence.	<ul style="list-style-type: none"> • Typographical Error
10/01/2015	R4	LCD is revised to add the following diagnoses effective 10/1/2015: C34.91 and C34.92.	<ul style="list-style-type: none"> • Reconsideration Request
10/01/2015	R3	LCD is revised to add ICD-10 diagnosis C09.9 effective 10/1/2015.	<ul style="list-style-type: none"> • Revisions Due To ICD-10-CM Code Changes
10/01/2015	R2	This LCD is revised to remove the paragraph, "When requesting an individual consideration through the written redetermination (formerly appeal) process, providers must include all relevant medical records and any pertinent peer-reviewed literature that supports the request. At a minimum two (2) Phase II studies (human studies of efficacy, pivotal) or one (1) Phase III study (evidence of safety and efficacy, pivotal) must be submitted for the Medical Director's review " from the Associated Information field.	<ul style="list-style-type: none"> • Other (Removed the paragraph, "When requesting an individual consideration through the written redetermination (formerly appeal) process, providers must include all relevant medical records and any pertinent peer-reviewed literature that supports the request. At a minimum two (2) Phase II studies (human studies of efficacy, pivotal) or one (1) Phase III study (evidence of safety and efficacy, pivotal) must be submitted for the Medical Director's review.")
10/01/2015	R1	The following HCPCS codes were replaced due to CPT 2015 updates: 77418 with G6015 and 0073T with G6016. Other coding deletions/additions were made in Indications and Limitations of Coverage.	<ul style="list-style-type: none"> • Revisions Due To CPT/HCPCS Code Changes

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– Associated Documents

Attachments

N/A

Related Local Coverage Documents

N/A

Related National Coverage Documents

N/A

Public Version(s)

Updated on 08/21/2017 with effective dates 10/01/2017 - N/A
Updated on 08/19/2016 with effective dates 10/01/2015 - 09/30/2017
Updated on 02/25/2016 with effective dates 10/01/2015 - N/A
Updated on 12/15/2015 with effective dates 10/01/2015 - N/A
Updated on 11/16/2015 with effective dates 10/01/2015 - N/A
Updated on 03/27/2015 with effective dates 10/01/2015 - N/A
Updated on 01/06/2015 with effective dates 10/01/2015 - N/A
Updated on 03/31/2014 with effective dates 10/01/2015 - N/A

– **Keywords**

- Intensity
- Modulated
- Radiation
- Therapy
- IMRT
- 77301
- 77338
- G6015
- G6016
- Malignant
- neoplasm

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