

EXTENT OF DISEASE (EOD) 2018 GENERAL CODING INSTRUCTIONS SEPTEMBER 2019

Effective with cases diagnosed January 1, 2018 and forward

Prepared by
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Publication History

EOD was first published as part of the 1976 SEER Code Manual. The first EOD-specific coding manual was the April 1977 EOD Manual, which included a 13-digit and 2-digit coding schemas. This manual was used for diagnosis years 1977-1982. In 1983, EOD was moved to a 4-digit coding schema that provided schemas for all sites.

The next major update was the EOD 1988 10-digit, which was revised in 1992 and 1998. EOD was discontinued as of diagnosis date 12/31/2003. Collaborative Stage was implemented for diagnosis dates 1/1/2004 through 12/31/2015. Although Collaborative Stage was discontinued for the cancer registry community at that time, some SEER registries continued to collect Collaborative Stage for 2016 and 2017. As of 12/31/2017, Collaborative Stage is discontinued for those SEER registries as well, and EOD 2018 is implemented for SEER registries starting 1/1/2018.

Comparisons between EOD 2018 and earlier versions of EOD or CS are evaluated on a schema by schema basis, as some schemas cannot be compared and those that can be compared usually have limitations.

EOD 2018 has three main data items: EOD Primary Tumor, EOD Regional Nodes and EOD Mets. EOD 2018 is fully compatible with the AJCC TNM staging manual, 8th edition. Thorough review of EOD 2018 was done by NCI SEER staff, SEER*Educate Staff from the SEER Seattle registry, and contractors.

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Extent of Disease

Extent of Disease (EOD) 2018 is a new version of EOD with significant differences from previous versions. NCI SEER maintains a surveillance system for cancer identification for the following purposes:

- Supporting Department of Health and Human Services (DHHS)-wide cancer control initiatives, including Healthy People 2020
- Permitting staging of the most comprehensive set of patients for all cancer sites
- Reporting and monitoring trends in cancer incidence and outcomes
- Supporting and promoting research for all types of cancer
- Enabling and ensuring ongoing continuity of staging trends over time reflecting the combination of clinical and pathologic information (since 1994)

The 2018 version of EOD applies to every site/histology combination, including lymphomas and leukemias.

EOD uses all information available in the medical record; in other words, it is a combination of the most precise clinical and pathological documentation of the extent of disease.

There are 3 main data items in EOD, each of which is discussed in detail.

1. EOD Primary Tumor
2. EOD Regional Nodes
3. EOD Mets

This manual is effective for all cases diagnosed 1/1/2018 and after.

Send questions, suggestions and corrections to:

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Choose subject: Extent of Disease (EOD)

Definitions of Terms Used in this Manual

Adjacent connective tissue

These are unnamed tissues that immediately surround an organ or structure containing a primary cancer. Use this category when a tumor has invaded past the outer border (capsule, serosa, or other edge) of the primary organ into the organ's surrounding supportive structures but has not invaded into larger structures or adjacent organs. The structures considered in ICD-O-3 as connective tissue include the following: adipose tissue; aponeuroses; arteries; blood vessels; bursa; connective tissue, NOS; fascia; fatty tissue; fibrous tissue; ganglia; ligaments; lymphatic channels (not nodes); muscle; nerves (spinal, sympathetic and peripheral); skeletal muscle; subcutaneous tissue; synovia; tendons; tendon sheaths; veins, and vessels, NOS. In general, these tissues do not have specific names. These tissues form the framework of many organs, provide support to hold organs in place, bind tissues and organs together, and serve as storage sites for nutrients.

Adjacent organs/structures

Organs are anatomic structures with specific physiologic functions other than (or in addition to) support and storage. There are two types:

- Unnamed: Contiguous growth into an unnamed organ lying next to the primary is coded to 'adjacent organs/structures.'
- Named: Connective tissues may be large enough to be given a specific name.
 - Examples include: Blood, cartilage and bone are sometimes considered connective tissues, but in this manual, they would be listed separately.
 - Contiguous growth from one organ into an adjacent named structure would be coded to 'adjacent organs/structures.' For example, the brachial artery has a name, as does the broad ligament and both are structures.

Circulating Tumor Cells (CTCs)

See Isolated Tumor Cells

Contiguous

Directly adjacent; continuously adjoining; without lapse or intervening space; used in reference to regionalized cancers and extent of disease.

Cortex (adjective: cortical)

The external or outer surface layer of an organ, as distinguished from the core, or medulla, of the organ. In some organs, such as the adrenal glands, the cortex has a different function than the medulla.

Discontinuous

Tumors that are not connected; tumors in more than one area with normal tissue between them; often a sign of metastatic disease.

Disseminated Tumor Cells (DTCs)

See Isolated Tumor Cells

Direct extension

A term used in staging to indicate contiguous growth of tumor from the primary into an adjacent organ or surrounding tissue.

Distant

Refers to cancer that has spread from the original (primary) tumor to distant organs or distant lymph nodes.

Isolated tumor cells (ITCs), Circulating tumor cells (CTCs), Disseminated tumor cells (DTCs)

Isolated tumor cells (ITC) are single tumor cells or small clusters of cells not more than 0.2 mm in greatest extent that can be detected by routine H and E stains or immunohistochemistry. An additional criterion has been proposed to include a cluster of fewer than 200 cells in a single histological cross-section. The same applies to cases with findings suggestive of tumor cells or their components by non-morphological techniques such as flow cytometry or DNA analysis.

ITCs do not typically show evidence of metastatic activity (e.g. proliferation or stromal reaction) or penetration of lymphatic sinus walls.

This definition also refers to circulating tumor cells (CTCs) and disseminated tumor cells (DTCs)

Localized

In medicine, describes disease that is limited to a certain part of the body. For example, localized cancer is usually found only in the tissue or organ where it began, and has not spread to nearby lymph nodes or to other parts of the body. Some localized cancers can be completely removed by surgery.

Medulla (adjective: medullary)

The medulla (central) portion of an organ, in contrast to the outer layer or cortex. It is sometimes called marrow. In some organs, such as bone, the medulla or marrow has a different physiologic role than the cortex.

Parenchyma

The parenchyma is the functional portion of an organ, in contrast to its framework or stroma. For example, the parenchyma of the kidney contains all the structures which filter and remove waste products from the blood. In general, malignancies tend to arise in the parenchyma of an organ.

Regional

In oncology, describes the body area right around a tumor.

Stroma

The stroma are the cells and tissues that support, store nutrients, and maintain viability within an organ. Stroma consists of connective tissue, vessels and nerves, and provides the framework of an organ. In general, spread of tumor to the stroma of an organ is still localized or confined to the organ of origin.

Ambiguous Terminology

Most of the time, registrars will find definitive statements of involvement; however, for those situations where involvement is described with non-definitive (ambiguous) terminology, use the guidelines below to interpret and determine the appropriate assignment of EOD Primary Tumor, EOD Regional Nodes or EOD Mets.

Determination of the cancer stage is both a subjective and objective assessment by the physician(s) of how far the cancer has spread. When it is not possible to determine the extent of involvement because terminology is ambiguous, look at the documentation that the physician used to make informed decisions on how the patient is being treated. For example, assign the EOD fields based on involvement when the patient was treated as though adjacent organs or nodes were involved.

Use the following lists to interpret the intent of the clinician **ONLY** when further documentation is not available and/or there is no specific statement of involvement in the medical record. The clinician's definitions/descriptions and choice of therapy have priority over these lists because individual clinicians may use these terms differently.

Note 1: Terminology in the schema takes priority over this list. Some schemas interpret certain words as involvement; such as 'encasing' the carotid artery for a head and neck site or "abutment," "encases," or "encasement" for pancreas primaries.

Note 2: Use this list only for EOD 2018 or Summary Stage 2018.

Note 3: This is **not** the same list used for determining reportability as published in the [SEER manual](#), [Hematopoietic Manual](#) or in Section 1 of the Standards for Oncology Registry Entry (STORE). This is **not** the same list of ambiguous terminology provided in the Solid Tumors Rules published and maintained by the SEER Program.

Use the following lists as a guide **when no other information is available.**

Involved

Adherent	Incipient invasion
Apparent(ly)	Induration
Appears to	Infringe/infringing
Comparable with	Into*
Compatible with	Intrude
Consistent with	Most likely
Contiguous/continuous with	Onto*
Encroaching upon*	Overstep
Extension to, into, onto, out onto	Presumed
Features of	Probable
Fixation to a structure other than primary**	Protruding into (unless encapsulated)
Fixed to another structure**	Suspected
Impending perforation of	Suspicious
Impinging upon	To*
Impose/imposing on	Up to

Not Involved

Abuts	Extension to without invasion/involvement of
Approaching	Kiss/kissing
Approximates	Matted (except for lymph nodes)
Attached	Possible
Cannot be excluded/ruled out	Questionable
Efface/effacing/effacement	Reaching
Encased/encasing	Rule out
Encompass(ed)	Suggests
Entrapped	Very close to
Equivocal	Worrisome

* interpret as involvement whether the description is clinical or operative/pathologic

** interpret as involvement of the other organ or tissue

EOD 2018 Schemas

The EOD site-specific schemas are based on historical schemas, Summary Stage 2000 and the AJCC 8th Edition. Some of the AJCC chapters were divided to line up with historical Summary Stage chapters. See [SEER*RSA](#) for schema-specific coding guidelines, codes and code descriptions for EOD Primary Tumor, EOD Regional Nodes and EOD Mets.

Note: The individual schemas are not included in the EOD Manual.

EOD Schema	SS Chapter	AJCC – Chap. No	AJCC Chapter Name
Adnexa Uterine Other	Adnexa Uterine Other	N/A	N/A
Adrenal Gland	Adrenal Gland (including NET)	76	Adrenal Cortical Carcinoma
Ampulla Vater	Ampulla Vater (including NET)	27	Ampulla of Vater
Anus	Anus	21	Anus
Appendix	Appendix (including NET)	19	Appendix-Carcinoma
Bile Ducts Distal	Extrahepatic Bile Ducts	26	Distal Bile Duct
Bile Ducts Intrahepatic	Intrahepatic Bile Ducts	23	Intrahepatic Bile Duct
Bile Ducts Perihilar	Extrahepatic Bile Ducts	25	Perihilar Bile Ducts
Biliary Other	Biliary Other	N/A	N/A
Bladder	Bladder	62	Urinary Bladder
Bone Appendicular Skeleton	Bone	38	Bone
Bone Pelvis	Bone	38	Bone
Bone Spine	Bone	38	Bone
Brain	Brain	72	Brain and Spinal Cord
Breast	Breast	48	Breast
Buccal Mucosa	Buccal Mucosa	7	Oral Cavity
Cervical Lymph Nodes and Unknown Primary Tumor of the Head and Neck	Cervical Lymph Nodes and Unknown Primary	6	Cervical Lymph Nodes and Unknown Primary Tumors of Head and Neck
Cervix	Cervix	52	Cervix Uteri
CNS Other	CNS Other	72	Brain and Spinal Cord
Colon and Rectum	Colon and Rectum (including NET)	20	Colon and Rectum
Conjunctiva	Conjunctiva	65	Conjunctival Carcinoma
Corpus Adenosarcoma	Corpus Sarcoma (including Adenosarcoma)	54	Corpus Uteri-Sarcoma
Corpus Carcinoma	Corpus Carcinoma and Carcinosarcoma	53	Corpus Uteri-Carcinoma and Carcinosarcoma
Corpus Sarcoma	Corpus Sarcoma (including Adenosarcoma)	54	Corpus Uteri-Sarcoma

EOD Schema	SS Chapter	AJCC – Chap. No	AJCC Chapter Name
Cutaneous Carcinoma of Head and Neck	Skin (except Eyelid)	15	Cutaneous Carcinoma of the Head and Neck
Cystic Duct	Extrahepatic Bile Ducts	24	Gallbladder
Digestive Other	Digestive Other	N/A	N/A
Endocrine Other	Endocrine Other	N/A	N/A
Esophagus (including GE junction) Squamous	Esophagus (including GE junction)	16	Esophagus and Esophagogastric Junction
Esophagus (including GE junction) (excluding Squamous)	Esophagus (including GE junction)	16	Esophagus and Esophagogastric Junction
Eye Other	Eye Other	N/A	N/A
Fallopian Tube	Fallopian Tube	55	Ovary, Fallopian Tube, and Primary Peritoneal Carcinoma
Floor of Mouth	Floor of Mouth	7	Oral Cavity
Gallbladder	Gallbladder	24	Gallbladder
Genital Female Other	Genital Female Other	N/A	N/A
Genital Male Other	Genital Male Other	N/A	N/A
GIST	GIST	43	Gastrointestinal Stromal Tumors
Gum	Gum	7	Oral Cavity
Heart and Mediastinum	Heart, Mediastinum, Pleura	42	Soft tissue sarcoma of the Abdomen and Thoracic Visceral Organs
HemeRetic	HemeRetic	83	Leukemia
Hypopharynx	Hypopharynx	11	Oropharynx (p16-) and Hypopharynx
Ill-Defined Other	Ill-Defined Other	N/A	N/A
Intracranial Gland	Intracranial Gland	72	Brain and Spinal Cord
Kaposi Sarcoma	Kaposi Sarcoma	45	Soft tissue sarcoma of Unusual Sites and Histologies
Kidney Parenchyma	Kidney Parenchyma	60	Kidney
Kidney Renal Pelvis	Kidney Renal Pelvis	61	Renal Pelvis and Ureter
Lacrimal Gland	Lacrimal Gland/Sac	69	Lacrimal Gland Carcinoma
Lacrimal Sac	Lacrimal Gland/Sac	N/A	N/A
Larynx Glottic	Larynx Glottic	13	Larynx
Larynx Other	Larynx Other	13	Larynx
Larynx SubGlottic	Larynx SubGlottic	13	Larynx

EOD Schema	SS Chapter	AJCC – Chap. No	AJCC Chapter Name
Larynx SupraGlottic	Larynx SupraGlottic	13	Larynx
Lip	Lip	7	Oral Cavity
Liver	Liver	22	Liver
Lung	Lung	36	Lung
Lymphoma	Lymphoma	79, 80	Hodgkin and Non-Hodgkin Lymphoma <i>(Adult and Pediatric chapters)</i>
Lymphoma-CLL/SLL	Lymphoma	79, 80	Hodgkin and Non-Hodgkin Lymphoma <i>(Adult and Pediatric chapters)</i>
Lymphoma Ocular Adnexa	Lymphoma Ocular Adnexa	71	Ocular Adnexal Lymphoma
Major Salivary Glands	Major Salivary Glands	8	Major Salivary Glands
Maxillary Sinus	Nasal Cavity and Paranasal Sinuses	12	Nasal Cavity and Paranasal Sinus
Melanoma Choroid and Ciliary Body	Melanoma Uvea	67	Uveal Melanoma
Melanoma Conjunctiva	Melanoma Conjunctiva	66	Conjunctival Melanoma
Melanoma Head and Neck	Melanoma Head and Neck	14	Mucosal Melanoma of the Head and Neck
Melanoma Iris	Melanoma Uvea	67	Uveal Melanoma
Melanoma Skin	Melanoma Skin	47	Melanoma of the Skin
Merkel Cell Skin	Merkel Cell Skin	46	Merkel Cell Carcinoma
Middle Ear	Middle Ear	N/A	N/A
Mouth Other	Mouth Other	7	Oral Cavity
Mycosis Fungoides and Sézary Syndrome	Mycosis Fungoides	81	Primary Cutaneous Lymphomas
Nasal Cavity and Ethmoid Sinus	Nasal Cavity and Paranasal Sinuses	12	Nasal Cavity and Paranasal Sinus
Nasopharynx	Nasopharynx	9	Nasopharynx
NET Adrenal Gland	Adrenal Gland (including NET)	77	Adrenal-Neuroendocrine Tumors
NET Ampulla of Vater	Ampulla Vater (including NET)	30	Neuroendocrine Tumors of the Duodenum and Ampulla of Vater
NET Appendix	Appendix (including NET)	32	Neuroendocrine Tumors of the Appendix

EOD Schema	SS Chapter	AJCC – Chap. No	AJCC Chapter Name
NET Colon and Rectum	Colon and Rectum (including NET)	33	Neuroendocrine Tumors of the Colon and Rectum
NET Duodenum	Small Intestine (including NET)	30	Neuroendocrine Tumors of the Duodenum and Ampulla of Vater
NET Jejunum and Ileum	Small Intestine (including NET)	31	Neuroendocrine Tumors of the Jejunum and Ileum
NET Pancreas	Pancreas (including NET)	34	Neuroendocrine Tumors of the Pancreas
NET Stomach	Stomach (including NET)	29	Neuroendocrine Tumors of the Stomach
Orbital Sarcoma	Orbit	70	Orbital sarcoma
Oropharynx HPV-Mediated (p16+)	Oropharynx	10	HPV-Mediated (p16+) Oropharyngeal Cancer
Oropharynx (p16-)	Oropharynx	11	Oropharynx (p16-) and Hypopharynx
Ovary	Ovary and Primary Peritoneal Carcinoma	55	Ovary, Fallopian Tube, and Primary Peritoneal Carcinoma
Palate Hard	Palate Hard	7	Oral Cavity
Pancreas	Pancreas (including NET)	28	Exocrine Pancreas
Parathyroid	Parathyroid	75	Parathyroid
Penis	Penis	57	Penis
Pharynx Other	Pharynx Other	N/A	N/A
Placenta	Placenta	56	Gestational Trophoblastic Neoplasms
Plasma Cell Myeloma	Myeloma Plasma Cell Disorder	82	Plasma Cell Myeloma and Plasma Cell Disorders
Plasma Cell Disorders	Myeloma Plasma Cell Disorder	82	Plasma Cell Myeloma and Plasma Cell Disorders
Pleura	Pleura	37	Malignant Pleural Mesothelioma
Primary Cutaneous Lymphomas: Non-MF/SS	Primary Cutaneous Lymphomas: Non-MF/SS	81	Primary Cutaneous Lymphomas
Primary Peritoneal Carcinoma	Ovary and Primary Peritoneal Carcinoma	55	Ovary, Fallopian Tube, and Primary Peritoneal Carcinoma
Prostate	Prostate	58	Prostate
Respiratory Other	Respiratory Other	N/A	N/A

EOD Schema	SS Chapter	AJCC – Chap. No	AJCC Chapter Name
Retinoblastoma	Retinoblastoma	68	Retinoblastoma
Retroperitoneum	Retroperitoneum	44	Soft tissue sarcoma of the Retroperitoneum
Sinus Other	Sinus Other	N/A	N/A
Skin Eyelid	Skin Eyelid	64	Eyelid Carcinoma
Skin Other	Skin (except Eyelid)	N/A	N/A
Small Intestine	Small Intestine (including NET)	18	Small Intestine
Soft Tissue Abdomen and Thoracic (excluding Heart, Mediastinum, Pleura)	Soft Tissue	42	Soft tissue sarcoma of the Abdomen and Thoracic Visceral Organs
Soft Tissue Head and Neck	Soft Tissue	40	Soft tissue sarcoma of the Head and Neck
Soft Tissue Trunk and Extremities	Soft Tissue	41	Soft tissue sarcoma of the Trunk and Extremities
Soft Tissue Usual Histologies/Sites	Soft Tissue	45	Soft tissue sarcoma of Unusual Sites and Histologies
Stomach	Stomach (including NET)	17	Stomach
Testis	Testis	59	Testis
Thymus	Thymus	35	Thymus
Thyroid	Thyroid (including Medullary)	73	Thyroid-Differentiated and Anaplastic Carcinoma
Thyroid Medullary	Thyroid (including Medullary)	74	Thyroid-Medullary
Tongue Anterior	Tongue Anterior	7	Oral Cavity
Trachea	Trachea	N/A	N/A
Urethra	Urethra (including prostatic)	63	Urethra
Urethra-Prostatic	Urethra (including prostatic)	63	Urethra
Urinary Other	Urinary Other	N/A	N/A
Vagina	Vagina	51	Vagina
Vulva	Vulva	50	Vulva

General Coding Instructions

Extent of Disease (EOD) 2018 is a data collection system which has three data items: EOD Primary Tumor, EOD Regional Nodes, and EOD Mets. These items may be combined with other data to derive different types of stage. EOD 2018 is collected for **every site and histology combination** for cases diagnosed 1/1/2018 and forward.

Do not use this system for any cases diagnosed prior to 1/1/2018.

Note: ALWAYS check site-specific EOD 2018 schemas for exceptions and/or additional information.

General Guidelines

1. EOD schemas apply to ALL primary sites and specified histologies. Most schemas are based on primary site, while some are based on histology alone.
2. For ALL sites, EOD is based on a combined clinical and operative/pathological assessment. Gross observations at surgery are particularly important when all malignant tissue cannot be, or was not removed.
 - a. In the event of a discrepancy between pathology and operative reports concerning excised tissue, priority is given to the pathology report.
3. EOD should include all information available within **four months of diagnosis** in the absence of disease progression or upon completion **of surgery(ies)** in first course of treatment, whichever is longer.
4. Clinical information, such as description of skin involvement for breast cancer and distant lymph nodes for any site, can change the EOD stage. Be sure to review the clinical information carefully to accurately determine the extent of disease.
 - a. If the operative/pathology information disproves the clinical information, use the operative/pathology information.
5. Information for EOD from a surgical resection **after neoadjuvant treatment may be used**, but **ONLY** if the extent of disease is greater than the pre-treatment clinical findings.
6. Disease progression, including metastatic involvement, known to have developed after the initial stage workup, should be excluded when coding the EOD fields.
7. Autopsy reports are used in coding EOD just as are pathology reports, applying the same rules for inclusion and exclusion.
8. Death Certificate only (DCO) cases
Code the following for DCO's, unless more specific codes can be assigned.
 - a. EOD Primary Tumor: 999
 - b. EOD Regional Nodes: 999
 - c. EOD Mets: 99
9. T, N, M information may be used to code EOD 2018 when it is the only information available.

10. Use the medical record documentation to assign EOD when there is a discrepancy between the T, N, M information and the documentation in the medical record. If you have access to the physician, please query to resolve the discrepancy.
 - a. When there is doubt that documentation in the medical record is complete, code the EOD corresponding to the physician staging.

Example: Patient diagnosed at community hospital with limited workup. Staging note from medical oncologist suggesting missing results from further outside test.

11. EOD Schema-specific guidelines take precedence over general guidelines. Always read the information pertaining to a specific primary site or histology schema.

EOD DATA ITEMS

EOD PRIMARY TUMOR

Item Length: 3

NAACCR Item #: 772

NAACCR Name: EOD Primary Tumor

Description

EOD Primary Tumor is part of the EOD 2018 data collection system and is used to classify contiguous growth (extension) of the primary tumor within the organ of origin or its direct extension into neighboring organs. See also EOD Regional Nodes [NAACCR Data item #774] and EOD Mets [NAACCR Data item #776]. **Effective for cases diagnosed 1/1/2018 and forward.**

Rationale

EOD Primary tumor is used to calculate Derived EOD 2018 T (when applicable) [NAACCR Data item #785] and Derived Summary Stage 2018 [NAACCR Data item #762]. Derivation will occur at the level of the central registry.

Note: ALWAYS check site-specific EOD 2018 schemas for exceptions and/or additional information

See the most current version of [SEER*RSA](#) for rules and site-specific codes and coding structures.

Code	Description
000	In situ, intraepithelial, noninvasive, non-infiltrating
	SCHEMA-SPECIFIC CODES WHERE NEEDED
800	No evidence of primary tumor
999	Unknown; extension not stated Primary tumor cannot be assessed Not documented in patient record Death Certificate Only

Coding Instructions

1. **Assign the farthest documented contiguous extension of the primary tumor.** Code the farthest documented contiguous direct extension of tumor away from the primary site. If an involved organ or tissue is not specifically mentioned in the code descriptions, approximate the location from listed structures in the same anatomic area and assign the appropriate code based on that information. EOD Primary Tumor codes are hierarchical with the exception of code 800.
2. A “localized, NOS” code is provided for those cases in which the only description is “localized with no further information.” “NOS” codes should be used only after an exhaustive search for more specific information.
3. **Pathological findings take priority over clinical findings.**
 - a. Assign the highest code representing the greatest extension pathologically (based on pathology report), when available.
 - b. If there is no applicable pathology, assign the highest code representing the greatest extension clinically. Imaging takes precedence over physical examination.

- c. If extension is positive based on imaging and/or physical exam, but is confirmed to be negative on pathological exam, then code EOD Primary Tumor based on the pathological findings.
4. **Neoadjuvant (preoperative) therapy:** If the patient receives neoadjuvant (preoperative) systemic therapy (chemotherapy, immunotherapy) or radiation therapy, code the clinical information if that is the farthest extension documented. If the post-neoadjuvant surgery shows more extensive disease, code the extension based on the post-neoadjuvant information.
5. **In situ tumors:** Assign code 000 for in situ tumors.
 - a. **Exception:** For some schemas, e.g., Breast, there may be multiple categories of in situ codes. Use schema-specific instructions and codes.
6. **In situ tumors with nodal or metastatic involvement:** In the event of an in situ tumor with nodal or metastatic involvement, assign EOD Primary Tumor as in situ and code the EOD Regional Nodes and/or EOD Mets appropriately. **This is a change from previous versions of EOD and Summary Stage.**
7. When multiple tumors are reported as a single primary, code the furthest direct extension from any tumor.
8. **Discontinuous or distant metastases:** Discontinuous/discontiguous metastases are usually coded in the EOD Mets field. Some exceptions include: mucinous carcinoma of the appendix, corpus uteri, ovary, fallopian tube and female peritoneum, where discontinuous metastases in the pelvis or abdomen are coded in EOD Primary Tumor.
 - a. For some schemas, e.g., Breast, Lung, and Kidney, direct (contiguous) extension to certain specific sites is listed under EOD Mets. If the structure involved by direct extension is not listed in EOD Primary Tumor categories, look for it in EOD Mets. **If the specific structure involved by direct extension is not listed in either data item, assign the highest known contiguous extension code in EOD Primary Tumor.**
9. **Code 800** when there is no evidence of the primary tumor (occult primary).
10. **Code 999**
 - a. Assign code 999 when there is no information on primary tumor extent.
 - b. Code 999 is to be used by default for death certificate only (DCO) cases; however, assign the appropriate EOD Primary Tumor code when specific primary tumor extension information is available on a DCO.
11. **Document choice of EOD Primary Tumor code in text.** It is strongly recommended that the assessment of the primary tumor extension be documented, as well as the choice of the EOD Primary Tumor code in a related STAGE text field on the abstract. While primary tumor extension can be found in a variety of places, it's most commonly found in a pathology and/or operative report.

EOD REGIONAL NODES

Item Length: 3

NAACCR Item #: 774

NAACCR Name: EOD Regional Nodes

Description

EOD Regional Nodes is part of the EOD 2018 data collection system and is used to classify the regional lymph nodes involved with cancer at the time of diagnosis. See also EOD Primary Tumor [NAACCR Data item #772] and EOD Mets [NAACCR Data item #776]. Effective for cases diagnosed 1/1/2018 and forward.

Rationale

EOD Regional Nodes is used to calculate Derived EOD 2018 N (when applicable) [NAACCR Data item #815] and Derived Summary Stage 2018 [NAACCR Data item #762]. Derivation will occur at the level of the central registry.

Note: ALWAYS check site specific EOD 2018 schemas for exceptions and/or additional information

See the most current version of [SEER*RSA](#) for rules and site-specific codes and coding structures.

Code	Description
000	No regional lymph node involvement
	SCHEMA-SPECIFIC CODES WHERE NEEDED
800	Regional lymph node(s), NOS Lymph node(s), NOS
888	Use for these sites only: Brain; CNS Other; HemeRetic; Ill-Defined Other (includes unknown primary site); Intracranial Gland; Lymphoma; Lymphoma-CLL/SLL, Plasma Cell Myeloma
999	Unknown; regional lymph node(s) not stated Regional lymph node(s) cannot be assessed Not documented in patient record Death Certificate Only

Coding Instructions

1. **Record the specific involved regional lymph node chain(s) farthest from the primary site.** Regional lymph nodes are listed for each schema. EOD Regional Nodes are hierarchical, with the exception of code 800.
 - a. Generally, the regional lymph nodes in the chain(s) closest to the primary site have lower codes, while nodes farther away from the primary or in farther lymph node chains have higher codes, although there are exceptions due to lymph drainage patterns.

- b. If a lymph node chain is not listed, check the abstractor notes in [SEER*RSA](#), Appendix C of the [Hematopoietic Manual](#), an anatomy textbook, ICD-O-3, or a medical dictionary for a synonym. **If the lymph node chain or its synonym are not listed in regional lymph nodes, code the involved node(s) in EOD Mets.**

- i. **Tip for coding lymph nodes:** If not possible to determine if a lymph node is regional or distant, check the scheme for a site that is nearby.

Example: If unable to determine if a listed regional node for esophagus is regional or distant, check the stomach EOD regional nodes. If the lymph node chain is listed as regional for stomach, assume the named lymph node is not an obscure name for a lymph node chain and that it is probably distant for the esophagus.

2. **Pathological findings take priority over clinical findings:** It is not necessary to biopsy every lymph node in the suspicious area to disprove involvement. See next section for coding instructions when neo-adjuvant therapy is administered.

- a. Code the lymph node involvement at diagnosis pathologically (based on pathology report), when available.
- b. If there is no applicable histology, assign lymph node involvement based on clinical findings. Imaging takes precedence over physical examination.
- c. If nodes are determined positive based on imaging and then confirmed to be negative on pathological exam, then code EOD Regional Nodes based on the negative pathological findings.

Exception: Assign code 800, “Regional lymph node(s), NOS or Lymph node(s), NOS” only when there is lymph node involvement, but no available information regarding the specific node(s) involved.

3. **Neoadjuvant (preoperative) therapy:** If the patient receives neoadjuvant (preoperative) systemic therapy (chemotherapy, immunotherapy) or radiation therapy, code the clinical information if that is the most extensive lymph node involvement documented. If the post-neoadjuvant surgery shows more extensive lymph node involvement, code the regional nodes based on the post-neoadjuvant information.
4. **Terms meaning lymph node involvement:** For solid tumors, the terms “fixed” or “matted” and “mass in the hilum, mediastinum, retroperitoneum, and/or mesentery” (with no specific information as to tissue involved) are recorded as involvement of lymph nodes.
 - a. Other terms, such as “palpable,” “enlarged,” “visible swelling,” “shotty,” or “lymphadenopathy” should be ignored for solid tumors, unless there is a statement of involvement by the clinician or the patient was treated as though regional nodes were involved.

Example: Palpable axillary lymph nodes found, consistent with mets. Record as involvement of lymph nodes.

Example: Enlarged renal hilar nodes found on CT, positive for cancer. Record as involvement of lymph nodes.

b. The terms “homolateral,” “ipsilateral,” and “same side” are used interchangeably.

5. **Accessible lymph nodes:** For “accessible” lymph nodes that can be observed, palpated, or examined without instruments, such as the regional nodes for the breast, oral cavity, salivary gland, skin, thyroid, and other organs, look for some description of the regional lymph nodes. **A statement such as “remainder of examination negative” is sufficient to code 000 negative regional lymph nodes.**

Note: If there is mention of a clinical evaluation but no mention of positive lymph nodes, assign code 000.

6. **Inaccessible lymph nodes:** For certain primary sites, regional lymph nodes are not easily examined by palpation, observation, physical examination, or other clinical methods. These are lymph nodes within body cavities that in most situations cannot be palpated, making them inaccessible. Bladder, colon, corpus uteri, esophagus, kidney, liver, lung, ovary, prostate, and stomach are examples of inaccessible sites (this is not an all-inclusive list). When EOD Primary Tumor is low stage/Localized and standard treatment is done, it is sufficient to code 000 for negative regional lymph nodes.

7. Code EOD Regional Nodes 000 (negative) instead of 999 (unknown) when **ALL** three of the following conditions are met:

- a. There is no mention of regional lymph node involvement in the physical examination, pre-treatment diagnostic testing, or surgical exploration.
- b. The patient has localized disease.
- c. The patient receives what would be the standard treatment to the primary site (treatment appropriate to the stage of disease as determined by the physician), or patient is offered usual treatment but refuses it.

These guidelines apply only to localized cancers. Assign code 999 when there is reasonable doubt that the tumor is localized.

Example: When there is evidence that a prostate cancer has penetrated through the capsule into the surrounding tissues (regional disease) and regional lymph node involvement is not mentioned, it would be correct to code 999 for unknown lymph node involvement in the absence of any specific information regarding regional nodes.

8. **In situ tumors:** Code 000 for lymph node involvement.
9. **In situ tumors with metastatic nodal involvement:** In the event of an in situ tumor with metastatic nodal involvement, assign EOD Primary Tumor as in situ (code 000) and code EOD Regional Nodes appropriately (positive). **This is a change from prior versions of EOD.**
10. **Direct tumor extension into lymph node:** If direct extension of the primary tumor into a regional lymph node is shown, code the involved node(s) in EOD Regional Nodes.

11. **Sentinel lymph nodes:** Involved nodes found during sentinel lymph node procedures are classified as positive regional nodes.
 - a. The sentinel lymph node is the first lymph node to receive lymphatic drainage from a primary tumor.
 - b. If it contains metastatic tumor, this indicates that other lymph nodes may contain tumor. If it does not contain metastatic tumor, other lymph nodes are not likely to contain tumor. Occasionally there is more than one sentinel lymph node
12. **Isolated Tumor cells (ITCs):** For some schemas, ITCs are counted as positive regional nodes, while other schemas count them as negative. **See the individual schemas to determine how to code ITCs.**
13. **Discontinuous (satellite) tumor deposits (peritumoral nodules) for colon, appendix, rectosigmoid and rectum:** These can occur WITH or WITHOUT regional lymph node involvement. Assign the appropriate code according to guidelines in individual schemas. Tumor nodules in pericolic or perirectal fat without evidence of residual lymph node structures can be one of several aspects of the primary cancer: discontinuous spread, venous invasion with extravascular spread, or a totally replaced lymph node. If there are Tumor Deposits and node involvement, code only the information on node involvement in this field. Specific information on Tumor Deposits is coded in the data item: Tumor Deposits [NAACCR Data Item #3934].
14. **Code 800.** Use code 800 for the following situations:
 - a. Lymph node assignment for the EOD schema is based on location (specifically listed lymph nodes) and the only documentation available is that lymph nodes are involved.
 - b. Lymph node assignment for the EOD is based on number and/or size and the only documentation available is that lymph nodes are involved.
 - c. Statement of “regional lymph nodes involved,” with no further information on location, number and/or size.
 - d. Unidentified nodes included with the resected primary site.
 - i. Nodes may be identified in the operative or pathology report (including the final diagnosis), microscopic or gross description.
 - e. Lymph nodes which are not specified as regional or distant should be assumed to be regional nodes.
15. **Code ‘888’ for the following schemas:**
 - i. Brain
 - ii. CNS Other
 - iii. HemeRetic
 - iv. Ill-Defined Other (includes unknown primary site)
 - v. Intracranial Gland
 - vi. Lymphoma

- a) Primary Cutaneous Lymphoma and Ocular Adnexal Lymphoma have separate schemas from Lymphoma. **EOD Regional Nodes must be coded for those two schemas (888 is not valid)**
- vii. Lymphoma-CLL/SLL
- viii. Plasma Cell Myeloma

16. Code 999

- a. Assign code 999 when there is no information on regional lymph node involvement and the primary tumor is not localized.
- b. Code 999 is to be used by default for death certificate only (DCO) case: however, assign the appropriate EOD Regional Nodes code when specific regional lymph node involvement information is available for a DCO.

17. Document choice of EOD Regional Nodes code in text. It is strongly recommended that the positive and negative assessment of regional lymph node(s) be documented, as well as the choice of the EOD Regional Nodes code in a related STAGE text field on the abstract. Information on regional node status can be found on physical exam, scans and pathology reports.

EOD METS

Item Length: 2
NAACCR Item #: 776
NAACCR Name: EOD Mets

Description

EOD Mets is part of the EOD 2018 data collection system and is used to classify the distant site(s) of metastatic involvement at time of diagnosis. See also EOD Primary Tumor [NAACCR Data item #772] and EOD Regional Nodes [NAACCR Data item #774]. Effective for cases diagnosed 1/1/2018 and forward.

Rationale

EOD Mets is used to calculate Derived EOD 2018 M (when applicable) [NAACCR Data item #795] and Derived Summary Stage 2018 [NAACCR Data item #762]. Derivation will occur at the level of the central registry.

Note: ALWAYS check site-specific EOD 2018 schemas for exceptions and/or additional information

See the most current version of [SEER*RSA](#) for rules and site-specific codes and coding structures.

Code	Description
00	No distant metastasis Unknown if distant metastasis None
	SCHEMA-SPECIFIC CODES WHERE NEEDED
70	Distant metastasis, NOS
88	Use for these sites only: HemeRetic; Ill-Defined Other (includes unknown primary site); Kaposi Sarcoma; Lymphoma; Lymphoma-CLL/SLL; Plasma Cell Myeloma, Plasmacytomas
99	Death certificate only (DCO)

Coding Instructions

- Determination of EOD Mets requires only history and physical examination.** Imaging of distant organs is not required. *In other words, when a case lacks any extensive workup, the registrar can infer that there are no distant metastases based solely on physical exam documentation.*
 - Assign 00 for cases in which there are no distant metastases as determined by clinical, radiographic and/or pathologic methods.
 - A case is classified as clinically free of metastases (code 00) unless there is documented evidence of metastasis by clinical means or by cytological/pathological examination of a metastatic site. For the following scenarios, code 00 can be used:
 - No information is available (no PE, imaging or pathology)

- ii. There is reasonable doubt that the tumor is no longer localized and there is no documentation of distant metastasis
 - c. Assign the appropriate EOD Mets codes 10-70 for cases in which one or more distant metastases is identified by clinical, radiographic and/or pathologic methods. EOD Mets codes are hierarchical with the exception of code 70.
2. For a few schemas, such as Breast, Lung, Kidney, and Ovary, the EOD Mets category may include direct extension of the primary tumor into distant organs or tissues. If the structure involved by direct extension is not listed in EOD Primary Tumor, look for the structure in EOD Mets. If the specific structure involved by contiguous extension is not listed in either EOD Primary Tumor or EOD Mets, assign the highest available code in EOD Primary Tumor.
 3. **Discontinuous or hematogenous metastases:** Distant metastasis known at the time of diagnosis is coded in EOD Mets. In other words, when the patient was diagnosed, tumor had already spread indirectly (through vascular or lymph channels) to distant lymph nodes or to site(s) distant from the primary site. Refer to the individual schemas for detailed instructions.
 4. **Positive pathological findings take priority over clinical findings.**
 - a. Assign the highest applicable code for metastasis at diagnosis pathologically (based on pathology report), when available.
 - b. If there is no applicable pathology or the pathology does not show metastasis, code EOD Mets based on clinical findings. Imaging takes precedence over physical examination.
 5. Not all possible metastatic sites are listed in each of the schemas. If there is confirmed metastasis of a site that is not listed, assign the highest code as described below.
 - a. For schemas that have only codes 10 (distant lymph nodes) and 70 (all other mets), code 70 is to be used for all mets (except distant lymph nodes only)
 - b. For schemas where there are additional codes, use the highest code before code 70 when mets are present that are not specified in any of the other codes. Code 70 in these cases should only be used when the only information is “distant metastasis, NOS,” and there is no documentation regarding the specific metastases
 - i. For example, history only cases or cases with minimal information available.
 - ii. There will be enough information to code the numerically lower, but more specific, EOD Mets code when the location of the metastases is documented in the chart or abstract.
 6. **Neoadjuvant (preoperative) therapy:** If the patient receives neoadjuvant (preoperative) systemic therapy (chemotherapy, immunotherapy) or radiation therapy, code the clinical information description that identifies the most extensive metastasis. If the post-neoadjuvant surgery shows additional or more extensive metastasis, code EOD Mets based on the post-neoadjuvant information.

7. **Isolated Tumor Cells (ITCs), Circulating Tumor Cells (CTCs), and Disseminated Tumor Cells (DTCs):** small clusters of tumor cells not greater than 0.2 mm in largest dimension found in distant sites such as bone, circulating blood, or bone marrow and having uncertain prognostic significance.
 - a. For breast, code 05 when a biopsy of a distant site shows ITCs, CTCs or DTCs detected by IHC or molecular techniques.
 - b. For other sites, CTCs, DTCs, and ITCs are coded 00.
8. **In situ tumors with metastatic involvement:** In the event of an in situ tumor with metastatic involvement, assign EOD Primary Tumor as in situ (code 000) and code EOD Mets appropriately (positive). **This is a change from prior versions of EOD.**
9. **Code 88 for the following schemas**
 - i. HemeRetic
 - ii. Ill-Defined Other (includes unknown primary site)
 - iii. Kaposi Sarcoma
 - iv. Lymphoma
 - a) Primary Cutaneous Lymphoma and Ocular Adnexal Lymphoma have separate schemas from Lymphoma. **EOD Mets must be coded for those two schemas (88 is not valid)**
 - v. Lymphoma-CLL/SLL
 - vi. Plasma Cell Myeloma
 - vii. Plasmacytomas
10. **Code 99:** Code 99 is to be **used ONLY for death certificate only (DCO) cases;** however, assign the appropriate EOD Mets code when specific metastatic information is available on a DCO.
 - a. When it is unknown if there are distant metastases, code 00 (see rule 1b).
11. **Document choice of EOD Mets code in text.** It is strongly recommended that the positive and negative assessment of distant lymph nodes and/or distant metastasis be documented, as well as the choice of the EOD Mets code in a related STAGE text field on the abstract. Information on distant mets can be most commonly found in Physical Exam and Scans.

DERIVED EOD 2018 T

Item Length: 15
NAACCR Item #: 785
NAACCR Name: Derived EOD 2018 T

New Data Item for Diagnosis Year 2018 and forward. Derived in Central registry only.

Description

This item stores the derived EOD 2018 T value derived from coded fields using the EOD algorithm. Effective for cases diagnosed 1/1/2018 and forward.

Rationale

Derived EOD 2018 T can be used to evaluate disease spread at diagnosis, treatment patterns and outcomes over time.

Derived EOD 2018 T is only available at the central registry level.

DERIVED EOD 2018 N

Item Length: 15

NAACCR Item #: 815

NAACCR Name: Derived EOD 2018 N

New Data Item for Diagnosis Year 2018 and forward. Derived in Central registry only.

Description

This item stores the derived EOD 2018 N staging element from coded fields using the EOD algorithm. Effective for cases diagnosed 1/1/2018 and forward.

Rationale

Derived EOD 2018 N can be used to evaluate disease spread at diagnosis, treatment patterns and outcomes over time.

Derived EOD 2018 N is only available at the central registry level.

DERIVED EOD 2018 M

Item Length: 15

NAACCR Item #: 795

NAACCR Name: Derived EOD 2018 M

New Data Item for Diagnosis Year 2018 and forward. Derived in Central registry only.

Description

This item stores the derived EOD 2018 M staging element from coded fields using the EOD algorithm. Effective for cases diagnosed 1/1/2018 and forward.

Rationale

Derived EOD 2018 M can be used to evaluate disease spread at diagnosis, treatment patterns and outcomes over time.

Derived EOD 2018 M is only available at the central registry level.

DERIVED EOD 2018 STAGE GROUP

Item Length: 15

NAACCR Item #: 818

NAACCR Name: Derived EOD 2018 Stage Group

New Data Item for Diagnosis Year 2018 and forward. Derived in Central registry only.

Description

Derived EOD 2018 Stage Group is derived using the EOD data collection system (EOD Primary Tumor [NAACCR Data item #772], EOD Regional Nodes [NAACCR Data item #774] and EOD Mets [NAACCR Data item #776]) algorithm. Other data items may be included in the derivation process. Effective for cases diagnosed 1/1/2018 and forward.

Rationale

Derived EOD 2018 Stage Group can be used to evaluate disease spread at diagnosis, treatment patterns and outcomes over time.

Derived EOD 2018 Stage Group is only available at the central registry level.

DERIVED SUMMARY STAGE 2018

Item Length: 1

NAACCR Item #: 762

NAACCR Name: Derived Summary Stage 2018

New Data Item for Diagnosis Year 2018 and forward. Derived in Central registry only.

Description

Derived Summary Stage 2018 is derived using the EOD data collection system (EOD Primary Tumor [NAACCR Data item #772], EOD Regional Nodes [NAACCR Data item #774], and EOD Mets [NAACCR Data item #776]) algorithm. Effective for cases diagnosed 1/1/2018 and forward.

Rationale

The SEER program has collected staging information on cases since its inception in 1973. For many cancer sites, the different versions of AJCC stage over time have made the analyses of long term trends in stage very difficult. Therefore, for long-term staging trends, SEER has relied on a more simplified summary stage. When Collaborative Stage (CS) information is no longer available, SEER will need to derive summary stage via computer algorithm based on T, N, or M (clinical, pathologic, Derived SEER combined) or EOD Primary Tumor, EOD Regional Nodes, and EOD Mets and other information as needed. Directly Assigned SS2018 data item is provided for those wishing to collect summary stage but are not collecting all of the fields needed by the computer algorithm to derive SS2018.

Code	Description
0	In situ
1	Localized
2	Regional, direct extension only
3	Regional, regional lymph nodes only
4	Regional, direct extension and regional lymph nodes
7	Distant
8	Benign, borderline
9	Unstaged

Note: Code 5 (Regional, NOS) has been removed for Summary Stage 2018.