MISSOURI CANCER REGISTRY

Cancer Reporting Manual for Non-hospital Facilities

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INTRODUCTION

The Missouri Cancer Registry Cancer Reporting Instruction Manual has been written to assist Non-hospital facilities in reporting cancer cases to the Missouri Cancer Registry (MCR).

Established in 1972, the Missouri Cancer Registry serves as a statewide cancer database. Cancer reporting for Missouri hospitals was voluntary from 1977 until 1984, when the Missouri General Assembly passed a bill to require cancer reporting of inpatient cancer cases. Consequently, 1985 represents the first year that Missouri cancer incidence rates can be calculated.

Responding to public health needs, the United States (US) Congress established the National Program of Cancer Registries (NPCR) in 1992. Administered by the Centers for Disease Control and Prevention (CDC), this program provides funds to enhance or establish state central cancer registries. Missouri became a NPCR state in 1995, with 1996 designated as MCR's index (reference) year.

NPCR requires state central registries to:

- Collect incidence data on residents,
- Follow stringent data management procedures,
- Provide training for state personnel, hospital registry and Non-hospital reporting facility staff,
- Publish an annual report within 24 months of the end of the diagnostic year,
- Conduct case-finding audits at selected facilities and
- Have legislation in place that mandates reporting of cases by all types of facilities that diagnose and/or treat cancer.

In 1999, the late Governor Mel Carnahan signed an expanded cancer reporting law. This law requires that pathology laboratories, ambulatory surgery centers, freestanding cancer clinics and treatment centers, physicians and Non-hospital facilities report cancer cases.

The expanded cancer reporting law was necessary not only because it is required by the CDC, but also due to the significant change in the patterns of health care. In recent years, this shift to outpatient diagnosis and treatment has resulted in underreporting of certain types of cancer cases (e.g. melanoma of the skin, bladder cancer, prostate cancer, etc.). Without complete data, the Missouri Department of Health and Senior Services (DHSS) cannot conduct accurate epidemiological studies or develop a comprehensive cancer prevention and control strategy.

Missouri Cancer Registry staff are available to provide one-on-one training workshops and educational presentations, as well as analysis of information submitted for special studies. Such studies can be customized based on the requirements of the hospital, physician, or health agency. Please refer to Appendix 5 to select the appropriate contact personnel.

I. GENERAL INSTRUCTIONS

The following information provides some basic rules regarding cancer reporting to the states' central registry.

The cancer reporting law applies to all types of Non-hospital facilities:

- Pathology laboratories,
- Physician offices, ambulatory surgical centers, free-standing cancer clinics and treatment centers (collectively to be referred to in the remainder of this document as "**physician reporting**"), and
- Residential care facilities or assisted living facilities, intermediate care facilities or skilled nursing facilities (collectively to be referred to in the remainder of this document as "long-term care facilities" or LTCF)

The instructions that follow in this manual will include paragraphs particular to given facility types.

All cancer cases diagnosed and/or treated for cancer in your facility must be reported to MCR.

The recommended reporting method is electronic reporting using Web Plus. Web Plus is a free software offered to all medical facilities reporting cases to the Missouri Cancer Registry. Forms within Web Plus are tailored to each physician reporting facility type and sometimes even to a specific cancer site.

Paper reporting forms are located in Appendix 8, and are to be used for those facilities annually reporting **five (5)** or less diagnosed or treated cancer cases. These forms require information on data items related to the patient and cancer being reported. There may be times when the medical record does not have all of the appropriate information to assist in coding these fields. If there is insufficient information to complete all of the items/fields, complete the form with as much information as possible. The name of the attending physician and the hospital in which the patient may have been admitted should be included on the form so that the facility can be contacted if more information is needed. If information cannot be found, please document by writing "unknown" or "information not available", rather than leave fields blank.

Non-hospital facilities may also include pertinent portions of a patient's chart (i.e. history and physical, operative summary, pathology report) for our review. If faxing forms, include the appropriate reports/summaries when faxing your submission. If using Web Plus, copy and paste information into available text boxes or in the comments section if more space is needed.

In addition to the instructions in this manual, brief directions appear in accompanying documents to assist in completing the paper forms as well as a training presentation located on our website in the Non-hospital section. Condensed instructions for Web Plus are included in Section III of this manual, as well as a more detailed instructions located on our website. These materials should help to clarify the kind of information we are seeking.

We do not want this process to be labor intensive. Your comments and suggestions about ways to improve the form, the reporting process, etc., are always welcome.

A. SUBMISSION GUIDELINES

Methods of Reporting:

• Electronic via Web Plus (most Physician offices, Ambulatory Surgery Centers, Radiation Therapy Treatment Centers) https://webplusmo.umh.edu/webplus/logonen.aspx

• Electronic via DHSS HL7 messages (most Pathology Labs)

If more than one cancer primary is diagnosed simultaneously, or assigned to you in Web Plus, please complete a patient record for each primary within Web Plus.

Web Plus users will have appropriate forms assigned within Web Plus, customized for each facility type and when appropriate, cancer site. If information is incomplete, a representative from the Missouri Cancer Registry will contact your office to gather the information required to complete case entry into the state system.

The cancer reporting form is available to facilities that report five (5) or fewer diagnosed or treated cancer cases per year. Two (2) versions of the CRF are located in Appendix 8.

Fax completed form(s) and supporting documentation to: 573-884-9655. *Pathology Reports or Other Supporting Documentation MUST Be Attached to the Reporting Form.*

Time Period for Reporting

All cancer cases being reported to the Missouri Cancer Registry must be submitted within 6 months following initial diagnosis and/or first course of treatment. If a case requires longer than 6 months to yield sufficient information to complete. an extension may be granted by phoning the Missouri Cancer Registry at 573-882-7775.

# of Reportable Cases/Year	Reporting Interval
>75	Monthly
25-74	Every other month
<25	Quarterly

B. REPORTABILITY

1. MANDATORY REPORTING

A. Health Care Providers Who Must Report

All health care providers who diagnose and/or treat cancer patients must report confirmed cases of cancer to the Missouri Cancer Registry (MCR). The types of providers listed below are included in this requirement.

- Hospitals
- Physicians
- Pathology laboratories
- Freestanding radiation or medical oncology clinics
- Ambulatory outpatient surgical centers
- Long-term care facilities

B. Determining Responsibility for Reporting

- 1. **Physicians** must report all required cancer cases that are not referred to a hospital for further diagnosis or treatment. This includes:
 - a. Patients who are clinically diagnosed and refuse or do not require further work-up or treatment
 - b. Patients who are newly diagnosed in the physician's own laboratory facility or by sending a specimen from the office to an outside laboratory, whether hospital or independent
 - c. Patients whose first course treatment is initiated in the physician's office or clinic. This includes cancer treatment by surgery, radiation, chemotherapy, immunotherapy, or hormones. *Exception*: If a hospital reports cases diagnosed and/or treated in a staff physician office, the physician need not duplicate this case to MCR.
- 2. **Pathology Labs**: Hospital-based laboratories and private or independent laboratories licensed in Missouri must report all required cancer cases diagnosed in the lab for patients that are not referred to a hospital for further

diagnosis and/or treatment. This includes cases also reported by physician offices as described in paragraph 1b above. For hospital-based laboratories these are "path only" cases not necessarily included in the hospital registry.

- 3. **Freestanding Radiation or Medical Oncology Clinics** must report any patient initially diagnosed with a reportable cancer and/or when first course treatment is initiated at the Non-hospital-based facility. This includes cancer treatment by surgery, radiation, chemotherapy, immunotherapy, or hormones.
- 4. **Surgery Centers**: Freestanding surgery centers (independent centers not affiliated with any hospital) must report any patient undergoing a biopsy or other surgical procedure at the facility for a newly diagnosed reportable cancer. This includes cases reported by either a hospital- based or private/independent medical laboratory as described in paragraph 2 above.

Surgery centers affiliated with a hospital must report any patient undergoing a biopsy or other surgical procedure at the facility for a newly diagnosed reportable cancer if the patient was not referred to the hospital for further diagnosis or treatment. This includes cases also reported by either hospital-based or private/independent medical laboratories as described in paragraph 2 above.

- 5. **Long-term Care Facilities,** must report the following types of newly diagnosed reportable cancer cases:
 - a. Cases diagnosed while residing in your facility even if clinically diagnosed but not confirmed through biopsy, cytology, or other microscopic methods.
 - b. Long-term Care Facilities, must report any patient receiving treatment for cancer while residing in that institution. The facility should send copies of pertinent medical records relating to the diagnosis to MCR.
 - Any patient diagnosed with cancer prior to admission in your facility and undergoing cancer-directed treatment
 - Treatment may be given outside your institution (radiation, chemotherapy, surgery, etc.)
 - Treatment may be given inside your institution (hormones for breast or prostate cancer)
 - c. Long-term Care Facilities, must report any patient diagnosed with a recurrence while residing at that facility. The facility should send copies of pertinent medical records relating to the diagnosis to MCR.
 - Any patient with a history of cancer who has been disease free for several months or several years, who is diagnosed and/or treated for a recurrence of the original cancer
 - Treatment may be given outside your institution (radiation, chemotherapy, surgery, etc.)
 - Treatment may be given inside your institution (hormones for breast or prostate cancer)

2. VOLUNTARY REPORTING for Long-term Care Facilities:

A. Report upon admission:

Any patient previously diagnosed with cancer but receiving no treatment, even though there is active disease. In this case, the cancer may be too advanced for treatment, or the patient's age or other health concerns may preclude treatment. The care for this patient is usually considered supportive, palliative or hospice.

B. Report at time of death:

Complete a form upon a patient's death for a patient with cancer or a history of cancer. The primary cause of death may or may not be related to the cancer diagnosis. Remember, we review these patients based on information as it is coded on the death certificate. If you choose to report these deaths as they occur, it will eliminate or substantially decrease the number of requests for death information from MCR.

What kind of information do we want?

Any details related to the diagnosis, treatment and staging of this cancer. We want any information you are able to share, even if you are unable to complete all data items. If possible, including supporting documents is very helpful. By providing us with the name of a physician, or hospital in which the patient may have been treated, we can follow up to get more details.

C. CONFIDENTIALITY AND HIPAA

MCR has strict policies and procedures for the maintenance of confidentiality and the disclosure of data. Non-confidential summary statistics will be released in annual reports or upon request, but the identity of the patient, hospital, physician, health care provider, pathology laboratory, ambulatory surgical center, free-standing cancer clinic, treatment center or long-term care facility will **not** be released without written consent from the concerned individual or facility.

Based on the HIPAA privacy regulations, MCR is a "*public health authority* authorized by law to collect and receive such information for the purpose of preventing and controlling disease, injury or disability, including...reporting of disease...and the conduct of public health surveillance...." [C.F.R. 164.512 (b)(1)(i) (2001)] Therefore, a covered entity (i.e., hospital, Non-hospital facility, etc.) may continue to disclose protected health information without specific individual informed consent.

For further information, see Appendix 6, "Frequently Asked Questions and Answers about HIPAA Regarding Cancer Reporting."

D. REPORTABLE TERMINOLOGY

Occasionally a diagnosis is not certain. The physician may suspect cancer, but no biopsy is performed to confirm the diagnosis. It may be possible to report those cases, using specific terms as a guide. These are standardized terms used nationally by cancer registries to decide about including cases.

Ambiguous Terms that Constitute a Diagnosis

The following terms indicate there **is involvement** of disease and the case should be reported: For a cancer case to be reportable, the ambiguous term must always include a reference to the reportable diagnosis being described, e.g., favors carcinoma or suspicious for malignancy.

- Apparent (ly)
- Appears
- Comparable with
- Compatible with
- Consistent with
- Favors
- Neoplasm*

Most likely Presumed Probable Suspect (ed) Suspicious (for) Typical of Tumor *

*additional terms for non malignant primary intracranial and central nervous system tumors only

Example: Test results report "CT of the chest, compatible with carcinoma of the left lung." Although the patient may have refused further work-up or treatment, this case is reportable.

Terms that DO NOT Constitute a Diagnosis

- Cannot be ruled out
- Possible
- Questionable
 - Suggests

Equivocal Potentially malignant Rule out Worrisome

Example: Barium enema (BE) reveals a sigmoid mass suspicious for neoplasm. Colonoscopy reveals a sigmoid mass, "possible malignant neoplasm." The patient is referred for biopsy and colon resection at another facility revealing carcinoma. The case is NOT reportable for your facility because mass and neoplasm are not associated with a reportable malignant term, whereas if it had been stated "suspicious sigmoid mass, probable malignant neoplasm," it would be reportable. If you are uncertain whether to report a case you may either:

- Complete a form and send it with a note explaining you are uncertain if it should be reported, or
- Call the toll-free telephone (800-392-2829) and ask how to proceed.

E. CASES NOT REQUIRED TO BE REPORTED

- Do not report basal and squamous cell skin cancers
- In situ carcinoma of the cervix uteri
- Cervical intraepithelial neoplasia (CIN)
- Prostatic intraepithelial neoplasia (PIN)
- Consult only cases
- When a patient has only a history of cancer (This applies to all facilities EXCEPT voluntary reporting by Long-term Care Facilities)

F. REPORTING DEATHS

Death details are crucial to the completeness of the information in our database. Here are some suggestions for reporting deaths:

- It is possible that a patient may be diagnosed with cancer and die from the disease before your facility has had an opportunity to complete a reporting form for MCR. In this instance, the death information would be reported at the same time the cancer diagnosis is reported.
- You may wish to complete a form upon a patient's death for a patient with cancer or a history of cancer. The primary cause of death may or may not be related to the cancer diagnosis. Death information may be submitted on the standard cancer reporting form. Complete the form with what information is known, particularly a diagnosis date. If the actual diagnosis date is unknown, it would be appropriate to indicate an estimate; that is, if you know the cancer was not diagnosed during the current calendar year, it would be permissible to write "prior to 2017". Remember, we review these patients based on the information as it is coded on the death certificate. If you choose to report these deaths

as they occur, it will eliminate or substantially decrease the number of requests by MCR for death information. These requests might be made up to 2 years after the actual death has occurred.

• If you have previously submitted a cancer reporting form on a patient, you do not have to report that patient's death. The information will be matched with the death certificate in the death clearance process.

II. CASEFINDING TECHNIQUES

Casefinding is an important system for identifying every patient, who is diagnosed and/or treated with a reportable diagnosis of cancer. All healthcare facilities should create a casefinding system to ensure all reportable cases are identified. It is important that personnel involved in casefinding be thoroughly familiar with reportable diagnoses listed in Appendix 4 and the ambiguous terminology lists on pages 10-11.

Reportable cases may be identified from a variety of sources. The pathology laboratory can provide cases diagnosed by histology, cytology, hematology or bone marrow. A comprehensive casefinding source is to use Appendix 4 to create quarterly disease indices run from billing codes. Other resources include daily coding logs, outpatient surgery logs, radiotherapy consults, treatment reports and logs, and oncology clinic treatment reports and logs.

Never rely solely on the pathology department to provide reportable cases. Doing so could exclude the 10% of cases for which there are no diagnostic tissue reports. Cases diagnosed elsewhere but treated at your facility and those diagnosed radio-graphically or clinically only, without tissue confirmation would be missed during casefinding unless additional resources are employed.

When potential cases are identified by the above methods, read through the documents in that patient's medical record for particulars to determine whether your facility actually diagnosed or treated this cancer. Use the reportability criteria to help you make this judgment. Documents may vary from one facility to another. In general the source documents in a facility can include, but are not limited to, the following:

- **Pathology and Cytology Reports**: Generally, 90 percent of all cancers are histologically confirmed. Reviewing all pathology and cytology reports is essential to complete cancer reporting. The cancer registrar or designated personnel should review all these reports.
- **Bone Marrow Reports**: A blood smear and/or a bone marrow specimen may be the sole basis of diagnosis for patients with leukemia/hematopoietic diseases. Bone marrow reports are similar to pathology reports and can be reviewed in the same manner.
- Imaging Reports: Review for clinical diagnosis. Some patients may be diagnosed on the basis of radiological findings alone and may never be histologically confirmed. Benign brain tumors are often initially diagnosed through scanning procedures. Review of radiology reports whose findings indicate the presence of neoplastic disease should be reviewed to prevent missed cases.
- Patient encounter documents (H&P, clinic notes and treatment plans and summaries): Review of admissions and discharges should be performed. Cases that are histologically confirmed at one facility and then referred to a subsequent facility for treatment are often identified within these documents.

Reviewing only one type of source document cannot identify all cancer cases diagnosed and/or treated in a facility. Use as many sources as needed to assure complete case ascertainment then use the gathered information to create and report abstracts of the case using the forms in Section III or IV.

Casefinding and cancer reporting do not have to be done at the same time. Decide what method is most efficient for you. Casefinding can be completed first and a list can be kept of the identified cases (suspense file) that will later need to be fully abstracted into our forms and submitted. The suspense list can also be checked against your list of cases previously reported to avoid duplication.

The suspense file can be maintained in several ways:

- Partially fill out the reporting form with identifying information and, if paper, file this form in month order by date of diagnosis for later completion and submission, or
- Enter the case into a spreadsheet, or
- Enter the case into a computerized database, which has a suspense file designed into it.

If a suspense file is used, it should be reviewed periodically to ensure that cases are completed and submitted promptly within six months.

III. CANCER REPORTING FORM

Brief instructions for completing the cancer reporting form are located in an accompanying document and may be helpful as a quick reference. Please note that it is preferable to write "unknown" or "information not available" for details you do not have, rather than leaving blanks. Completed forms should be accompanied by a face sheet, history and physical operative note or treatment summary and pathology report when available.

This section of the manual (Section III Cancer Reporting Form) is only intended for reporters using paper forms. For those reporters using Web Plus, please refer to Section IV of this manual for directions on using Web Plus. As mentioned on pages 6-7, a separate, more detailed Web Plus instruction manual is located on the Web Plus page of our website.

REPORTING FACILITY IDENTIFICATION

The information entered in this area is used to identify the facility reporting the case. Please record the full name of the facility, the telephone number, date the form is completed, name, e-mail address and fax number of contact person. The contact person is usually the person completing the form or someone familiar with the process.

A. PATIENT IDENTIFICATION INFORMATION

1. PATIENT NAME

- Record the patient's last name, then first name, followed by the middle name.
- Middle initial may be used if full middle name is not available.
- Titles, such as MD or Jr., may be recorded after the last name.
- Hyphenated last names are acceptable.
- Record any nicknames or alias in parenthesis.

2. ADDRESS

Please record the address at diagnosis if known or current address **prior** to admission to a non-hospital facility.

3. DATE OF BIRTH

Complete the patient's birth date, recording the month in the first two spaces, the day in the next two spaces, and the four-digit birth-year in the last four spaces.

If the month and day of birth are unknown, but year is known, record as: *99/99/1937. If the year of birth is unknown, *estimate the year*.

Example: The medical record states the patient is 60 years old at the time he is admitted to the hospital, June 15, 1990; there is no birth date documented; record the date of birth as 99/99/1930.

*"9" or "99" is used by cancer registries to indicate unknown information.

4. SOCIAL SECURITY NUMBER

Record the patient's Social Security number, if known. Do not record the spouse's number. Use **9s** if unknown or if no social security number.

5. RACE

Use the following information to record race:

• White includes Mexican, Puerto Rican, Cuban, and all other Caucasians.

6. HISPANIC ORIGIN

Indicate if patient is also of Spanish/Hispanic origin. If patient can be identified as one of the following, choose Hispanic/Other and indicate in space provided.

Mexican (includes Chicano) Puerto Rican Cuban South or Central American (Not Brazil) Other specified Spanish/Hispanic origin (includes European; excludes Dominican Republic) Spanish, Hispanic, Latino, NOS; Evidence other than surname or maiden name that person is Hispanic Dominican Republic (for use with patients who were diagnosed with cancer on January 1, 2005 or later)

7. SEX - Indicate the patient's sex: Male, Female, Transsexual or Other (Intersex, disorders of sexual development)

8. TOBACCO HISTORY – Choose yes, no, past or unknown. Tobacco history includes the use of cigarettes, cigars and chewing tobacco. Do not code use of e-cigarettes.

9. ALCOHOL HISTORY - Choose yes, no, past or unknown.

10. MARITAL STATUS AT DIAGNOSIS – Choose the marital status of the patient at diagnosis if known.

11. VITAL STATUS – Choose from the list of options, indicating whether the patient is alive, deceased and has evidence of cancer or whether the status is unknown.

12. USUAL OR LONGEST HELD OCCUPATION – Report the patient's *longest* held occupation and industry/company.

13. OCCUPATION AND INDUSTRY - Report the patient's *longest* held occupation and industry/company.

B. CANCER IDENTIFICATION/ STAGING/ TREATMENT INFORMATION

14. NEW VERSUS RECURRENCE - The first item to establish about the patient's cancer is whether it is a new cancer or one that has been previously diagnosed and treated (a recurrence). Look for clues in the history and physical or admission notes. The physician may make a statement as obvious as "this is a newly-diagnosed cancer" or may state, "This cancer was first diagnosed five years ago." A patient may have a disease-free period of several months or several years. If the cancer returns while at your facility, you will need to complete a new form. Please indicate clearly this is **NOT** a new cancer.

15. PROCEDURE PERFORMED - Document the type of procedure that was performed to diagnose the patient's cancer. Record the biopsy date and type. If you have access to the operative report, it will list the surgical procedure(s). The pathology report may also list the surgical procedure(s).

16. SURGICAL PROCEDURE TYPE - Document the surgical procedure that was performed. Record the date of the surgical procedure as well. If you have access to the operative report, it will list the surgical procedure(s). The pathology report may also list the surgical procedure(s).

17. PRIMARY SITE - The primary site is defined as the organ or site in which the cancer *originated* or began. A patient's disease may spread (metastasize) or be active in several areas of the body, but the original site is the one that should be recorded.

Please be as specific as possible. "Ascending colon" would be preferable to "colon." However, if the only term available to you in the medical record is very general (e.g. throat) that is acceptable. Do not spend a lot of time trying to find a more specific term.

Sometimes, the primary site cannot be determined; in these cases "unknown primary" should be recorded.

The primary site for a lymphoma is generally an area of lymph nodes, although it can be in an organ. If you are unable to determine where the disease began, you may record "Lymphoma, NOS."

Leukemias and other diseases of the blood (myeloproliferative disorders, myelodysplastic syndromes, anemia, etc.) are systemic (involving the whole body). You may leave the primary site blank or write "n/a."

18. DATE OF DIAGNOSIS - Record the month, day, and year this cancer was originally diagnosed by a medical practitioner. If this was a recurrence of a previously diagnosed cancer, the date would still be the date the cancer was first diagnosed. Though it may be more difficult to find an exact diagnosis date for a recurrence, just follow the same rules as for a newly diagnosed cancer.

- If the month or year of diagnosis is not documented, it should be estimated. If it cannot be estimated from available information, use the date of admission for newly diagnosed cancers. Estimation of these fields is preferable over recording **unknown**. For distant diagnoses, you may leave the field blank if it cannot be estimated.
- If only the time of year, spring, middle, fall, or winter of the year is documented, use April, July, October, and either December (if end of year) or January (if beginning of year) respectively.

19. LATERALITY - Laterality refers to one side of a paired organ (breast, lung, etc.). If that information is available to you, please record which side of the organ is involved. See list below.

	Paired Sites	
Adrenal Gland	Bones	Breast
Brain	Connective Tissue	Eye
Kidney	Lung	Ovary
Parotid Gland	Renal pelvis	Sinus
Skin	Testis	Tonsil

PRIMARY SITES – LATERALITY

This list includes the most frequently diagnosed primary sites with laterality. It is not allinclusive. Please be as specific as possible when recording primary site.

20. ULCERATION - Ulceration is the breakdown of the skin over a melanoma. Record any information given regarding ulceration located in the pathology report.

21. BRESLOW'S INFORMATION - For melanoma cases, record thickness of the tumor in millimeters. <u>https://www.oncolink.org/cancers/skin/melanoma/treatments/understanding-your-pathology-report-melanoma</u>. Record tumor size in millimeters as stated in the pathology report.

22. HISTOLOGY - Histology refers to the study of tissue and cells on the microscopic level. When viewing malignancies, the pathologist sees abnormal growth of the tissue. The pathology or cytology report will include a complete description of the tissue's appearance. Malignancies are grouped according to their appearance.

"Behavior" describes the way the neoplasm will act or behave. Some tumors are considered benign, which means non-cancerous. Benign brain tumors ARE reportable.

Malignant neoplasms that are reportable are either in situ or invasive. In situ describes cancer at its earliest stage, sometimes considered pre-cancerous or non-invasive. You may not see either of these words in your records.

There are hundreds of terms classifying every histology. Here are some major ones.

List of Common Histologies Indicating Malignancy

Chronic myeloproliferative disease, NOS Essential thrombocythemia Chronic neutrophilic leukemia Hypereosinophilic leukemia Adenocarcinoma Astrocytoma (brain) Carcinoma Glioma (brain) Hodgkin lymphoma (many more specific terms are used) Infiltrating ductal (breast) Intraductal carcinoma (breast) Large cell carcinoma Leukemia (acute, chronic plus other more specific terms) Melanoma Mucinous cystadenocarcinoma or adenocarcinoma Multiple myeloma Myelodysplastic syndromes Non-Hodgkin lymphoma (many more specific terms are used) Non-small cell carcinoma Papillary transitional cell carcinoma (urinary organs) Polycythemia vera Refractory anemia Sarcoma (soft tissue) Small cell carcinoma Squamous cell carcinoma Transitional cell carcinoma (urinary organs)

List of Common Terms Synonymous with In Situ Histologies

Bowen's disease Hutchinson's melanotic freckle, NOS Intraductal Intraepithelial, NOS Lentigo maligna Non-invasive Non-infiltrating

23. GRADE – Select grade of tumor if know. This can be found in the Pathology report.

24. LYMPH NODE INVOLVEMENT - Record number of positive lymph nodes and number of lymph nodes removed if known. Example: 4/10.

25. PRE OPERATIVE TUMOR MARKERS - Add value if known for Prostate, Breast and Testis.

STAGE OF DISEASE AT DIAGNOSIS

We realize that you may not have all of the information to correctly determine the stage of a patient's disease. We want you to be familiar with the various staging systems so you will be able to recognize them and record the information available on the cancer reporting form.

Cancer staging systems describe how far the cancer has spread. This information is important because it aids in determining treatment recommendations as well as prognosis. Those using the LTCF form should record any known staging information in the final box for 'other relevant information."

You may see a cancer described in terms such as "localized," or "advanced." The table below provides a list of those terms as well as their meaning. **YOU DO NOT HAVE TO DETERMINE A STAGE FOR EACH PATIENT**. We only want you to record a stage that may be mentioned by a physician in the patient's medical record. If the physician says localized, record "localized." If no stage is mentioned, state "unknown" or "no information in chart."

SEER Stage Description

In-situ; pre-cancerous

Localized; tumor confined to organ of origin; no evidence of spread beyond the primary site

Regional by direct extension; tumor extends directly beyond the primary site into surrounding (regional) organs or tissues

Regional to lymph nodes; tumor extends beyond the organ of origin (primary site) into the regional lymph nodes

Regional by direct extension and to lymph nodes; tumor extends beyond primary site by direct extension, into regional lymph nodes AND adjacent tissues

Distant metastasis; widely disseminated; tumor has spread from primary site to remote areas of the body, through the blood stream or lymph system

Unstaged; unknown; unspecified - use for unknown primaries and those cases where adequate staging information is NOT available

Another staging system uses the Roman numerals I-IV to describe the extent of disease, with stage I being the earliest and stage IV being the most advanced. A physician may state in a history and physical or admission note that the patient has recently been diagnosed or is being treated for a "Stage I" or "Stage One" ovarian cancer. "Stage I" is the term we'd like you to record in the stage field.

The TNM staging system uses values to describe the tumor (T), the involvement of nodes (N) and the assessment of disease at distant parts of the body (M). The definitions of each are specific to each type of cancer. A physician using this staging system would state for example the patient has a T1, N0, M0 cancer. That is the information you would record in the stage field. This information may also be found at the end of some pathology reports. For more information on TNM staging, please refer to Appendix 3, pages 36-38 of the manual.

26. SEER STAGING OF DISEASE – Enter SEER staging information if known as described above. <u>https://training.seer.cancer.gov/ss2k/</u>

27. TNM STAGING OF DISEASE - Enter TNM staging information if known as described above. <u>https://www.cancer.org/cancer/melanoma-skin-cancer/detection-diagnosis-staging/melanoma-skin-cancer-stages.html</u>

28. STAGING PROCEDURES – Enter information for any MRIs, Bone Scans, CT Scans, or Radiographs. Indicate whether procedure was positive, negative or unknown as well as date performed. Attach copies of reports, if available.

29. DISTANT METASTASIS - If cancer has spread to other sites beyond the primary site, record the site to which it has spread using the codes provided.

TYPES OF TUMOR-DIRECTED TREATMENT

Record **all** known cancer-directed therapy administered whether at your facility or at another facility. Documenting all treatments known provides a complete "picture" of the patient's cancer experience and is meaningful in calculating survival statistics and assessing treatment success.

You may not be able to determine whether a treatment is chemotherapy, hormonal therapy, biological therapy or supportive care. That does not matter. Just record any information you think may be related to the treatment of the patient's cancer. Again, it is preferable to write "unknown" or "information not available" for details you do not have, rather than leaving blanks.

We do not expect you to be familiar with the various drug names. Some may be for comfort or pain control rather than to actually treat the cancer. We do not want you to spend a great amount of time trying to determine the nature of the treatment. Just record the information and we'll determine if it is cancer-directed or supportive care.

30. CHEMOTHERAPY, HORMONAL THERAPY, IMMUNOTHERAPY - Again, we realize you may not be able to determine whether a treatment is chemotherapy, hormonal therapy or biological therapy. That does not matter. Just record any information you think may be related to the treatment of the patient's cancer.

Record any drug given to treat cancer tissue. Some drugs are given alone; others may be given in combinations. You may only see abbreviations for the chemotherapy (e.g. CHOP, ABVD, etc.). You may record these abbreviations. Chemotherapy drugs are used to kill cancer cells and alter the course of the disease. Hormonal therapies may be drugs such as tamoxifen for breast cancer, or flutamide and Lupron for prostate cancer.

Examples of immunotherapy include bone marrow transplants, interferon, BCG.

31. RADIATION TREATMENT/ THERAPY - Record the type and date of radiation therapy given. The following categories can be used to identify types of radiation therapy.

- Beam Radiation includes x-ray, cobalt, linear accelerator, stereotactic radiosurgery, such as gamma knife and proton beam.
- Radioactive implants often used for prostate cancer.
- Radioisotopes such as iodine-131 or phosphorous-32, given orally, or by intravenous injection (often used for bone pain)

32. OTHER TREATMENT (CANCER-DIRECTED THERAPY) - Sometimes patients choose therapies that are considered "alternative" or unproven." The patient may be taking shark cartilage for prostate cancer, or laetrile for other cancers. You may include information about these treatments if available.

33. DATE OF LAST CONTACT OR DEATH – Record the date of last contact or death of patient using MM/DD/YYY format.

Treatment Dates - It may be difficult to find documentation of treatment dates. Use the following guidelines to assist you in completing this field. It is preferable to estimate the date of a treatment than to leave it blank.

- Record the month, day, and four-digit year in which cancer-directed treatment was administered.
- If the exact date that therapy was begun is unknown, it is best to estimate the date, using the information available.
- Record **NONE** when no treatment is given and **UNKNOWN** when it is unknown if any treatment was given.

SUPPORTIVE CARE

For many patients, cancer-directed treatment may not be an option. In these patients, medications may be used to provide relief from symptoms, for pain control, or to limit side effects from other medications.

A few examples include:

G-CSF (Neupogen) – for low white blood counts (neutropenia) GM-CSF (Leukine) – for low white blood counts (neutropenia) Epoetin Alfa (Procrit) – to prevent anemia Pamidronate (Aredia – to treat hypercalcemia (high calcium level)

Pain Medications include Opioids (Examples: Morphine, hydromorphone, hydrocodone, oxycodone, codeine, fentanyl, methadone) and antidepressants (Examples: Amitriptyline, imipramine, doxepin, trazodone)

Sometimes the physician determines the patient would not benefit from treatment. "*No treatment*" is considered a treatment option and may represent the first course of therapy. Write "*no treatment*" in the treatment field. Enter the date "*no treatment*" is decided upon in the treatment date field.

Occasionally for certain cancers discovered very early, the physician chooses a "wait and see" approach. The term for this is observation or "*watchful waiting*." You may see this term in some of the physician's notes. Write "*watchful waiting*" in the treatment field. Enter the date "*watchful waiting*" is decided upon in the treatment field.

FOLLOWBACK

There may be instances when MCR receives information about a patient of yours from a Pathology Lab report that was submitted to us. These reports will generally have *some* of the data that would normally be submitted by you, but not all of it.

We may send the incomplete information as a Follow-back request through Web Plus.

We hope this information has been helpful and appreciate your willingness to report. For more information, please visit our website: <u>https://cancerregistry.missouri.edu/</u> or phone 573-882-7775 Monday through Friday, 8:00am – 4:00pm CST.

III. WEB PLUS



Web Plus Home Page for Jane Doe

Please select a cancer reporting activity from those listed below the facility for which you would like to report.







Save Click to save the abstract and run data Edits. See the box to the right for Edits results each time the abstract is saved.

Web Plus						Missouri State Cancer Registry Shari Ackerman 573-882-7775	1
Home	New Abstract	Find/Open Abstract	Release Abstracts	Reports	Change Password	Help	Log out
Enter new abstract					Add/View Comr	ment 🛛 Run CS Edits 🖕	
All data items marked with a	n asterisk (*) are requ	red.					
Date Case Completed		0		Edit Errors	Help		
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PATIENT DEMOGRAPHICS						rrors, if there are any, will be s atabase even if there are edit e	
Last Name		@			-	atabase even in there are edite	1013.
First Name		0		Data entry Help	lcons		
Middle Name		0		Special Code Loo	kup 🔎 icon to the left of t	the data item links to a search	able listing of terms
Maiden name		0			for the data item. When a s act for the data item.	specific code in the list is click	ed, it is automatically
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Street Address *		۷		Calculate Field Va	alue 🕮 icon to the left of a tem from information that b	a data item is clicked to autom has been entered for other data	atically calculate the items
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Medical Record Number		0					
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Abstractor	JAD	0					
Social Security Number *		0					
Phone		0					
AlcoholHx							
TobaccoHx		F					
TobaccoYears			Click on the "S	Save" huttor	n to retain voi	ur work and to	allow the
Marital status					-		
Sex			system to edit	the abstrac	t and display	errors.	
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			be sure to s	ave work o matic tim	often as Wo eout featur	eb Plus is co e and will tir	onfigured

Veb Plus	5								SI	issouri State Cancer hari Ackerman 73-882-7775	Registry
Home		New Abstract	Find/Op	pen Abstract F	Release Abstracts	Report	8	Change	Password	Help	Log out
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	g of all abstracts, ract for a specific		e patient's first o	or last name in the Nar	me box or social securi	ty number in		•		act" from t	
he Social Secu	urity box below, ar	d click Find. Se	arch on partial n	name and social secur	ity is supported.						lick "Find".
		-	urce by selectin	ng from the drop-down	· ·				e desired	abstract	by clicking
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	: 1. Locate the abst	act of interest, an	d click on either t	the Open or Delete link i	in the Actions column of	the table below				1	
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There may be instances when MCR receives information about a patient of yours from a Pathology Lab report that was submitted to us. These reports will generally have *some* of the data that would normally be submitted by you, but not all of it.

We may send this incomplete information to you to complete as a Follow-back request. You will receive an email from us stating that we have sent an abstract to you to complete.

To access the Follow-back abstract, login in to Web Plus and click on the Pathlab Follow-back Requests reporting activity.

Web	Plus										uri State Cancer Chermon Q-7775	
1	Home	Folio	w-back Requ	rests	Reports		hange Pas	sword	H	elp	—ij i——-	Logou
You hav	e received	follow-back r	equests on	the following	patients. Ple	ase click on	the Open	link to oper	a record an	d updat	e it.	
Actions	AbsRefID	Last Name	First Name	DxDate	Social Security	Birth Date	Primary Site	Laterality	Abstractor	Edit Errors	Status	
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Sil	16	MEIER	HAROLD	02/23/2010	9999999999	02/16/1927	C259	0	JD	0	Released	
Open	19	PETERS	MADELON		9999999999	07/05/1912					Incomplete	
Open	13	RUCKNER	WALLACE		9999999999	03/08/1929					Incomplete	
Open	17	STORK	MABEL		9999999999	04/02/1928			JD	16	Incomplete	
Open	15	TWICHELL	ROBERT		9999999999	02/11/1926					Incomplete	
	10	VALLE	THOMAS		9999999999	02/21/1927					Incomplete	
Open			RUTH			09/12/1915					Incomplete	

The next screen will list follow-back reports that have been sent to you to complete.

To update a record, click "Open" and update the corresponding record.

Web Plus					Missouri State Cancer Registry Shari Ackerman
Home	New Abstract	Find/Open Abstra	ct Re	e Abstracts Reports Change Password	573-882-7775 Help Log out
Update abstract				Add/View Commer	nt 🛛 Run CS Edits 🔈
All data items marked wi	th an asterisk (*) are requir	red.			
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PATIENT DEMOGRAPHI	CS			abstract will open.	
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First Name	Doodah	_ 0 >	-	a list of fields and values checked by the edit an	messages along with
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Maiden name		0		corrections. Click Save to save your corrections	and rerun edits.
Alias		0			complete and release the abstract to the central
Street Address *	One Hospital Drive	0		registry. Although edit warnings are for your infor to completion of the abstract, if at all possible ef	mation and are not required to be corrected prior fort should be made to resolve any warnings
Supplemental Address		<i></i>		prior to releasing the abstract to the central regis	
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Spouse Name		@		Missing Critical Field: <u>Text - Primary site</u>	•
				 Missing Critical Field: <u>Text - Histology</u> Missing Critical Field: <u>Managing/Reporting</u> 	o Physician
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Social Security Number *	999999999			10. Missing Critical Field: <u>Date of Staging Pro</u> 11. Missing Critical Field: <u>Date of First Treatr</u>	nent
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AlcoholHx				 Error: Text-Histology Title must not be bl i. Text - Histology = 	апк
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Marital status				i. <u>DxConf = 1</u>	
Sex		V (0)		ii. <u>Text - Pathology Report Info =</u>	
Race 1 *	08	V			
Race 2	99			·	
]
					γ
					1
				Complete the missing	n data and release to
				MCR as you would for	or a newly created
				abstract (pages 23-2	7).

Quick Reference Guide for Using Web Plus

Log on to Web Plus: https://webplusmo.umh.edu/webplus/logonen.aspx

1. Log on to application by using the MCR assigned User ID and Password.

2. Select 'New Abstract' or 'Find/Open Abstract'.

3. Begin by thoroughly reviewing the medical report/records and/or pathology report before entering any patient information.

4. If choosing 'New Abstract' begin entering the patient information. Your abstract will require a set of field entries specific to the type of tumors your facility treats. By clicking on the special help icon (2) a help screen will appear that provides information such as the size of the field, what information to input and who requires the field. There are also drop-down boxes for a number of fields which will auto-populate the field if clicked.* For some fields, you will also see a p which allows you to search for the proper codes. Certain other fields have a tan 'pop-up' box which will automatically appear upon entering the corresponding field, which provides additional help (e.g. how to show an unknown social security number, the use of punctuation, etc.). For further information regarding icons and their uses, please refer to pages 24-25 of this manual.

5. **Cancer Identification:** If the user has not reviewed the medical report and/or pathology report, please do so before attempting to enter any further information. Use information from the medical and/or pathology report to complete these items.

6. A. Histology field: This field is for the tissue diagnosis made by the pathologist. For melanoma cases, it will almost always be 'malignant melanoma, nos.' histology code of "8720/3." Use the search option and type 'malignant melanoma,' then hit enter to go to the appropriate code or simply type in the code, if known.

B. **Grade:** This may also be found on the pathology report (well-differentiated, moderately differentiated, etc.). Use the drop-down box for this field.

7. **Stage/prognostic factors:** The CDC and NPCR are now using a combination of the TNM and SEER summary staging. Use the help buttons to see what type of information needs to be recorded in each field. Scroll past the gray 'notes' section in the first part of the help screen to see the actual codes. You will notice some of the codes correspond to the TNM fields.

8. Most of the treatment fields are self-explanatory using the help codes. *Remember, we are only asking you to report patients who are NOT diagnosed or treated at a hospital.*

9. Be sure to complete the **Text Fields.** Use these fields to document specific details from the pathology report, operative note and other patient medical records. The fields are important because here you can use the text fields to document the codes. For example, if you chose "8720/3" for histology, then the text field should say "malignant melanoma, NOS." This will help MCR staff reviewing the abstracts to know if items are coded correctly. MCR staff will also use information from text fields to fill in a multitude of other codes so as not to burden you with them.

10. You may save information at any time without leaving the abstract. Once all information is complete, click on the '**Save**' button to save information. This function will automatically run edits, displaying any errors in the text area on the right of the screen. Simply correct errors, and re-save.

11. Once a case is saved, you may either choose the option of entering a new abstract, find/open an existing case to edit/enter additional information, or you may log off of the system.

12. To prevent loss of work, please remember to save data frequently, as Web Plus is configured with an automatic 'time-out' after 5-7 minutes of idle time.

* NOTE: If you know the corresponding code for a field, simply type in the code; you do not have to use the drop-down boxes to populate a field. (Example: '8720/3 for Histology, - type '8720/3 and press enter.)

Web Plus

Update abstract

All data items	marked with	an asterisk ((*) a	are required.
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Date Case Completed	20170510	۲
Reporting Physician	0000300000	0
PATIENT DEMOGRAPHICS		
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First Name	TRUMAN	0
Middle Name	Т	۷
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Alias		۲
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Supplemental Address		0
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State	MO	0
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County 🔎	019	٧
Medical Record Number	1234679	٧
Spouse Name		٧
Abstractor	sju	٧
Social Security Number	123456789	۷
Phone	5731234567	۷
AlcoholHx	1	
TobaccoHx	1	
TobaccoYears	10	
Marital status	1	0
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Race 3	88	0
Race 4	88	()

All data items marked with an asterisk (*) are required.

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Occupation	TEACHER	٢
Industry	UNIVESITY	۲
Date of first contact	20170501	٢
Primary Payer at Diagnosis	20	٢
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Text - LDH Lab Results LDH within normal limits	e //	0
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Place of Diagnosis		
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Text - Primary Site		
Skin of Right Arm		۷
Text - Histology		
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Managing/Reporting Physician	DR SMITH	0
CANCER IDENTIFICA	TION	
Primary Site	🔎 C446	۷
Histology ICD-0-3	<i>P</i> 8743	0
BehaviorICDO3	3	V
Diagnosis Date	20170501	
Laterality	1	V
STAGE/PROGNOSTIC	FACTORS	
Clark's Level		
	<i>P</i> 200	0
Breslow's Depth		
	<i>P</i> 050	
Ulceration		
CSSSF 4 LDH	<i>P</i> 000	()
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Date of Procedure	-	
	20170501	
FOLLOW-UP/DEATH Date of Last Contact	20470024	
Date of Last Contact	20170601	

Appendix 1: Quick Guide to Reporting

QUICK GUIDE TO REPORTING

REPORT neoplasms described with the following terms:

- a. in situ; noninvasive; intraepithelial; noninfiltrating; Stage 0
- b. malignant; cancer; malignant neoplasm, carcinoma

REPORT benign tumors of the brain and CNS (for diagnoses after January 1, 2004), in any of the following sites:

• The brain, meninges, spinal cord, cranial nerves, and other parts of the central nervous system, pituitary gland, craniopharyngeal duct, and pineal gland

REPORT when the cancer or malignancy is described with terms such as "apparently", "compatible with", "consistent with", "favors", "most likely", "probable", "suspect", "suspicious"

REPORT each primary site cancer separately. Any subsequent diagnosis of or treatment for cancer in another primary site should be reported as a separate case

DO NOT REPORT cases described as "possible", "questionable", "suggests", "rule out", "equivocal"

DO NOT REPORT when a patient has **only a history** of cancer with no currently active disease (This applies to all facilities EXCEPT voluntary reporting by Long-term Care Facilities)

DO NOT REPORT:

- Basal cell and squamous cell carcinoma of skin
- In situ carcinoma of the cervix uteri
- Cervical intraepithelial neoplasia (CIN) and
- Prostatic intraepithelial neoplasia (PIN)

Appendix 2: Information Required to Complete Patient Report

INFORMATION REQUIRED TO COMPLETE PATIENT REPORT

PATIENT IDENTIFICATION

Patient Name Social Security Number Address at Diagnosis Marital Status Sex Race Spanish/Hispanic origin Date of Birth

FIRST COURSE OF TREATMENT

Watchful waiting Patient refused treatment Surgery Radiation Chemotherapy Other therapy

FOLLOW-UP

Vital status/tumor status Date of last contact or date of death

DIAGNOSIS

Date/place of initial diagnosis PE/scans/scopes/lab Operative/pathology findings Residual tumor Diagnostic confirmation Hospital referred from/to (LTCFs, SNFs, NHs)

CANCER INFORMATION

Primary site/Histology/Grade (differentiation) Tumor Size Extent of Disease/lymph node involvement Staging information

Appendix 3: General Staging and TNM Staging

The following staging information was taken from the website of the National Cancer Institute: <u>https://www.cancer.gov/about-cancer/diagnosis-staging/staging</u>

Staging

Stage refers to the extent of your cancer, such as how large the tumor is, and if it has spread. Knowing the stage of cancer helps the doctor:

- Understand how serious a cancer is and chances of survival
- Plan the best treatment
- Identify clinical trials that may be treatment options

How Stage Is Determined

To learn the stage of a disease, a doctor may order x-rays, lab tests, and other tests or procedures. See the section on <u>Diagnosis</u> to learn more about these tests.

Systems that Describe Stage

There are many staging systems. Some, such as the TNM staging system, are used for many types of cancer. Others are specific to a particular type of cancer. Staging systems may include information about:

- Where the tumor is located in the body
- The cell type (such as, adenocarcinoma or squamous cell carcinoma)
- The size of the tumor
- Whether the cancer has spread to nearby lymph nodes
- Whether the cancer has spread to a different part of the body
- Tumor grade, which refers to how abnormal the cancer cells look and how likely the tumor is to grow and spread

The TNM Staging System

The TNM system is the most widely used cancer staging system. Most hospitals and medical centers use the TNM system as their main method for cancer reporting. You are likely to see cancers described by this staging system in a pathology report, unless a patient has a cancer
for which a different staging system is used. Examples of cancers with different staging systems include brain and spinal cord tumors and blood cancers.

In the TNM system:

- The T refers to the size and extent of the main tumor. The main tumor is usually called the primary tumor.
- The N refers to the the number of nearby lymph nodes that have cancer.
- The M refers to whether the cancer has metastasized. This means that the cancer has spread from the primary tumor to other parts of the body.

When a cancer is described by the TNM system, there will be numbers after each letter that give more details about the cancer—for example, T1N0MX or T3N1M0. The following explains what the letters and numbers mean:

Primary tumor (T)

- TX: Main tumor cannot be measured.
- T0: Main tumor cannot be found.
- T1, T2, T3, T4: Refers to the size and/or extent of the main tumor. The higher the number after the T, the larger the tumor or the more it has grown into nearby tissues. T's may be further divided to provide more detail, such as T3a and T3b.

Regional lymph nodes (N)

- NX: Cancer in nearby lymph nodes cannot be measured.
- N0: There is no cancer in nearby lymph nodes.
- N1, N2, N3: Refers to the number and location of lymph nodes that contain cancer. The higher the number after the N, the more lymph nodes that contain cancer.

Distant metastasis (M)

- MX: Metastasis cannot be measured.
- M0: Cancer has not spread to other parts of the body.
- M1: Cancer has spread to other parts of the body.

Other Ways to Describe Stage

The TNM system helps describe cancer in great detail. But, for many cancers, the TNM combinations are grouped into five less-detailed stages. When talking about a cancer, a doctor or nurse may describe it as one of these stage groups:

Stage	What it means
Stage 0	Abnormal cells are present but have not spread to nearby tissue. Also called carcinoma in situ, or CIS. CIS is not cancer, but it may become cancer
Stage I, Stage II, and Stage III	Cancer is present. The higher the number, the larger the cancer tumor and the more it has spread into nearby tissues
Stage IV	The cancer has spread to distant parts of the body

Another staging system that is used for all types of cancer groups the cancer into one of five main categories. This SEER staging system is more often used by cancer registries than by doctors. But, you may still hear a doctor or nurse describe a cancer in one of the following ways:

- In situ Abnormal cells are present but have not spread to nearby tissue
- Localized Cancer is limited to the place where it started, with no sign that it has spread
- Regional Cancer has spread to nearby lymph nodes, tissues, or organs
- Distant Cancer has spread to distant parts of the body
- Unknown There is not enough information to figure out the stage

Appendix 4: ICD-10-CM Reporting Codes List

For reportability, MCR utilizes ICD-10 codes as required by the National Program of Cancer Registries (NPCR) and the North American Association of Central Cancer Registries (NAACCR). These are the codes used by central registries throughout the US and Canada.

The ICD-10 list may change annually, so please refer to the MCR website for the 'SEER Casefinding List' link. <u>https://cancerregistry.missouri.edu/reporting/cancer-reporting-hospital/</u>.

Appendix 5: Resources/References

MCR STAFF RESOURCES

For information regarding:

- Cancer reporting using Web Plus
- Forms or reprints of MCR materials

Contact: Stacy Barr, Non-hospital Reporting Coordinator 573-882-7775 ext 06 <u>barrs@missouri.edu</u>

GENERAL CANCER RESOURCES

Missouri Cancer Registry (https://cancerregistry.missouri.edu/). This site was created to help facilities who are required to submit cancer reports with information to the central cancer registry.

Surveillance Epidemiology and End Results (<u>http://seer.cancer.gov/</u>). This site provides information on cancer statistics and survival of cancer in the U.S., information which may help reduce the burden of disease on the U.S. population.

Steve Dunn's Cancer Guide (<u>https://cancerguide2.com/</u>). Informative website created by a cancer survivor dedicated to educating non-medical people about cancer. Includes a simple, yet helpful section about understanding cancer types and staging.

American Cancer Society (<u>http://www.cancer.org/</u>). Select cancer by site for diagnostic and treatment information.

National Cancer Institute (<u>http://www.cancer.gov/</u>). Select cancer by site for diagnostic and treatment information.

A cancer dictionary from the National Cancer Institute's comprehensive cancer information website: <u>https://www.cancer.gov/publications/dictionaries/cancer-terms</u>.

Hormone Treatment for Prostate Cancer: <u>https://www.webmd.com/prostate-cancer/features/</u> hormone-therapy-for-prostate-cancer#1

Breslow's information - for melanoma cases information on understanding your pathology report: <u>https://www.oncolink.org/cancers/skin/melanoma/treatments/understanding-your-pathology-report-melanoma</u>

SEER Staging of Disease: <u>https://training.seer.cancer.gov/ss2k/</u>

TNM Staging: <u>https://www.cancer.org/cancer/melanoma-skin-cancer/detection-diagnosis-staging/melanoma-skin-cancer-stages.html</u>

RESOURCES FOR COMMON CHEMOTHERAPY DRUGS

National Cancer Institute: https://www.cancer.gov/about-cancer/treatment/drugs/cancer-type

Cancer.Net: <u>http://www.cancer.net/navigating-cancer-care/how-cancer-treated/drug-information-resources</u>

Navigating Care: https://www.navigatingcare.com/library/all/chemotherapy_drugs

Oncology Nurse Advisor: <u>http://www.oncologynurseadvisor.com/chemotherapy-</u>regimens/section/2171/

Chemocare.com: <u>http://www.chemocare.com/</u>

ONLINE RESOURCE FOR CANCER TERMS

National Cancer Institute: https://www.cancer.gov/publications/dictionaries/cancer-terms

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Appendix 6. Frequently Asked Questions (FAQS) Regarding the Missouri Cancer Registry (MCR)

1. What is a cancer registry? Why is it needed?

A cancer registry is a system for collection, storage, analysis and interpretation of data on cancer patients. Cancer registries may be hospital-based or population-based.

Hospital-based registries use information abstracted from medical records to assess the number of diagnoses per year and frequencies by sites. The information collected consists of demographics, site of cancer, type of cancer, type of treatments, stage of disease at diagnosis and vital status. Hospital registry data are used to evaluate diagnostic and treatment practices; assess quality of patient care and hospital programs; and track outcomes. Registry data are also used to develop standards of care; develop strategic plans and measure progress; and assist hospital administrators and physicians in setting up screening programs.

Central cancer registries depend on the information obtained from hospital-based registries and from other sources (e.g., pathology laboratories, freestanding cancer clinics and treatment centers, physician offices, non-hospital facilities, other state central registries, etc.). Data submitted by hospitals and other reporting facilities is edited, and then it is consolidated to remove duplicate cases. Data are then analyzed so that crude, age-adjusted and age-specific annual cancer incidence rates can be produced and trends in incidence for all cancers and for specific types/sites of cancer by age, sex and race can be assessed. These data are necessary to conduct epidemiological studies and evaluate the effectiveness or appropriateness of cancer prevention and control measures.

2. What is the goal of the Missouri Cancer Registry?

The ultimate goal is a true population-based cancer registry. In recent years, the patterns of health care have changed, and a shift to outpatient diagnosis and treatment has been recognized. This shift has resulted in underreporting of cancer cases. Sites that are known to be underreported include melanomas of the skin (white females and males); Non-Hodgkin's lymphoma (African-American males; cancers of the oral cavity and pharynx (African-American females) and prostate cancer (all males). Without a complete data set, the Missouri Department of Health cannot conduct accurate epidemiological studies or develop a comprehensive cancer prevention and control strategy.

The Centers for Disease Control and Prevention (CDC) also recognized this trend when they established the National Program of Cancer Registries (NPCR) by enacting The Cancer Registries Amendment Act (Public Law 102-515). This legislation authorizes the CDC to provide funds to states to improve existing registries or to establish registries where they do not exist. The Missouri Cancer Registry applied for and received a grant from CDC to enhance the state registry. Stipulations of this grant require that at least 95% of new cancer cases will be reported to MCR. This goal can only be accomplished if Non-hospital facilities report cancer cases to the Missouri Cancer Registry.

3. What information is required to be submitted by reporting facilities?

Hospitals are required to submit 223 NPCR or Missouri-required data elements. The information required for **Non-hospital facilities** is minimal and includes, but is not limited to:

patient's name, address, social security number, sex, race, Hispanic origin, date of birth, date of diagnosis, site, histology, stage and treatment.

4. Will the patient's right to confidentiality be breached if this information is reported to the Missouri Cancer Registry?

All cancer cases submitted to MCR will be covered by the regulations within this legislation protecting the identity of the patient, hospital, physician, health care provider, pathology laboratory, ambulatory surgical center, free-standing cancer clinic or treatment center. (See also Chapters 192.067 and 192.655 of the Missouri Revised Statutes)

5. Will physicians and other health care professionals be liable for breach of confidentiality?

Physicians and other health care professionals cannot be liable if state law requires reporting of cancer cases.

6. Are there any federal mandates associated with a state's central cancer registry?

Congress established the National Program of Cancer Registries (NPCR) in 1992 by enacting The Cancer Registries Amendment Act (Public Law 102-515). Public Law 102-515 authorizes The Centers for Disease Control and Prevention (CDC) to provide funds to states to improve existing cancer registries; to plan and implement registries where they do not exist; to develop model legislation and regulations for states to enhance viability of registry operations; to set standards for completeness, timeliness, and quality; and to provide training.

One requirement for retention of federal funding is that "The State has a law authorizing formation of a statewide registry and legislation or regulation in support of all 8 criteria outlined in Public Law 102-515". One criterion is completeness, defined as collection of data on at least 95% of cancer cases diagnosed or treated in the state each year.

When Missouri's existing legislation was enacted in 1984, the completeness criterion could be met with collection of hospital inpatient data. With advances in medical technology and changes in health care delivery, the completeness criterion can no longer be met solely by relying on hospital inpatient data. To maintain a population-based registry, information must also now be gathered from hospital outpatient departments, physicians' offices, freestanding treatment centers, ambulatory surgery centers, Non-hospital facilities and pathology laboratories.

In addition to meeting federal funding agency requirements, the state health department has the responsibility of maintaining a surveillance system that can produce accurate and complete reports on cancer incidence and trends in incidence. Therefore, the department strives not only to meet the minimum completeness requirement (95%) but also to achieve a 100% population-based central cancer registry.

7. What is the penalty for failure to report a case?

The penalty for failing to report is an infraction (192.657.3 RSMO). An infraction is not a crime as opposed to a felony or misdemeanor but may be punished by a fine. Chapter 556.021 RSMO defines an infraction as:

- An offense defined by this code or by any other statute of this state constitutes an "infraction" if it is so designated or if no other sentence than a fine, or fine and forfeiture or other civil penalty is authorized upon conviction.
- An infraction does not constitute a crime and conviction of an infraction shall not give rise to any disability or legal disadvantage based on conviction of a crime.

8. How often will I be required to report cases?

Reporting frequency will depend on reporting category and number of cases. Hospitals are required to submit at least quarterly with larger hospitals (greater than 500 cases annually) required to report monthly. Larger pathology laboratories may be requested to submit data on a monthly basis; small laboratories on a quarterly basis. Other Non-hospital facilities will be required to report at least quarterly. Physicians will be contacted on an as needed basis regarding additional data not available from other facilities (i.e., pathology labs will not have treatment information).

9. What patients are required to be reported?

Any patient that is diagnosed and/or treated at your facility for cancer is to be reported. This may include patients that are clinically diagnosed or patients diagnosed or treated for a recurrence as well as newly diagnosed patients. Further information can be obtained by calling the number listed below.

10. Can I request data from the Missouri Cancer Registry?

Yes, aggregate data can be requested by calling the number listed below. No patient, reporting facility, physician or healthcare provider information will be released without permission of the same.

11. Who do I call if I have questions after reading the FAQ Sheet?

For questions regarding Non-hospital reporting, please call 573-882-7775 ext 06.

Appendix 7: Disease Process Information for LTCF Reporters

INTRODUCTION

The information in this section is to assist you when you are reviewing patients' charts and would like to have a better understanding of certain types of cancer, their diagnosis and their treatment. It is not appropriate to use this information for the average person diagnosed with cancer. It was written with Non-hospital facility patients in mind.

Although there are more than one hundred types of cancer, we have included only some of the more common types of cancer. We do not expect you to become experts on cancer, but hope to familiarize you with some of the basics.

Colon Cancer

Symptoms: Bright red or black blood in the stool, weight loss, unexplained anemia or a change in bowel habits.

Diagnosis: Colonoscopy, digital rectal exam, sigmoidoscopy, biopsy or lower GI series.

Treatment: Treatment depends on the stage of the disease, surgery being the most common. Common surgical terminology seen in documentation is: polypectomy, wedge or bowel resection and colostomy. Non-surgical treatments may include: radiation and/or chemotherapy. Radiation is delivered by an external beam therapy (ERBT. Chemotherapy treatments involve a regimen of drugs. You may see drug names such as: Fluorouracil (5-FU, Capecitabine (Xeloda, Irinotecan (Camptosar, Oxaliplatin (Eloxatin, Cetuximab (Erbitux, Bevacizumab (Avastin or combination treatments called FOLFOX (FOLic acid,5-FU, OXaliplatin.

Staging: You may see colon cancer staging refered to as: "Duke" or "TNM".

Bladder Cancer

Symptoms: Blood or blood clots in the urine are the most common urinary symptoms.

Diagnosis: Urinalysis to check for blood in urine (hematuria. Washing of the bladder to examine the cells (cytology. Intravenous pyelogram (IVP, abdominal CT, and chest x-ray may be useful. Cystoscopy – visual examination of the bladder using a lighted tubular instrument.

Treatment: Depends on the stage of the disease. For tumors that do not invade muscle, tumors may be removed with surgery (transurethral resection of the bladder or TURB, with lasers (YAG or CO2 or with chemotherapy drugs placed into the bladder. BCG (a biological therapy is frequently used. It is given by catheter inside the bladder weekly for six consecutive weeks. More advanced disease requires more extensive surgery or radiation therapy, depending on the general health of the patient.

Staging: May be stated using any of the staging systems described in the manual, page 18 or Appendix 3.

Brain Tumors (benign and malignant)

All brain tumors whether benign or malignant *must* be reported. There are several types of brain tumors; distinguished from one another by the way the cancer cells look under the microscope. This section **only** covers brain tumors that start in the brain. (Sometimes cancer in the brain has spread from another part of the body.

Malignant Histologies include:

Astrocytoma Ependymoma Glioblastoma Multiforme Glioma Malignant Meningioma (may be benign or malignant) Medulloblastoma Oligodendroglioma

Benign Histologies include:

Chordoma Neurocytoma, Central Neurofibromas Neurofibromatosis Nuerothekeoma Neuroma Perineurioma, NOS

Symptoms: Frequent headaches, vomiting, difficulty walking or speaking.

Diagnosis: CT scan, or MRI may be used to visualize a tumor. A biopsy helps to determine the tumor type and the aggressiveness of the tumor. Brain tumors may be diagnosed by radiology tests alone.

Treatment: Surgery is the most common treatment. Depending on the patient's general health, age, etc. this may not be an option. In that case, radiation may be used to shrink the tumor.

Staging: There is no staging system for this disease.

Breast cancer

Symptoms: Lump or thickening in/near the breast or underarm area. A change in the size or shape of the breast, discharge from the nipple, change in the color or the breast may become dimpled, puckered, or scaly.

Diagnosis: Occasionally physicians find Non-hospital facility patients with breast masses or neglected breast cancer (based on the appearance of a lesion with obvious tissue death.

Treatment: Depending on the patient's general condition, there may be no treatment other than hormones. It is possible this patient will never enter a hospital for diagnosis or treatment of this cancer. For patients in generally good health, a variety of surgery types could be recommended.

Staging: May be stated using any of the staging systems described in the manual, page 18 or Appendix 3.

<u>Leukemia</u>

Leukemia is a disease of the blood. The classification system for leukemia can be confusing, so for our purposes, we will only discuss the two main forms: Acute and chronic.

Symptoms: Patients may have symptoms including: enlarged lymph nodes, swollen gums, bruises or small pinpoint red rash on the skin.

Diagnosis: Diagnosis will include blood tests (to look for abnormal white blood cells. Bone marrow examination may also be performed (usually in a hospital setting.

Treatment:

ACUTE: Chemotherapy for these patients is intensive and almost always completed in a hospital setting. Physicians are often reluctant to offer treatment for elderly patients. In many cases, the patient or family refuses treatment. Without treatment, length of survival averages 3-5 months after diagnosis.

CHRONIC: Treatment for patients with early stage disease may consist of "observation only." Chemotherapy for those with more advanced disease might include: fludarabine, hydrea, busulfan (myerlan. Chronic leukemias sometimes convert to an acute phase. Average survival is measured in years rather than months (for all age groups. It is possible this patient will never enter a hospital for diagnosis or treatment of this cancer.

Staging: There is no staging system for this disease.

Liver cancer

Also known as hepatocellular carcinoma or hepatoma. Rare type of cancer. Most cancers in the liver spread there from another organ and are identified by the organ from which they spread (e.g. colon, breast, etc. **This section refers only to cancers originating in the liver**.

Symptoms: Like pancreatic cancer, this cancer is generally diagnosed at an advanced stage. Symptoms may include bloating, abdominal pain, weight loss, decreased appetite and nausea. Jaundice is frequently present.

Diagnosis: Diagnostic work-up may include blood tests, liver function studies, Alpha Feta Protein (AFP. Imaging tests may be useful to establish the stage of disease (CT, ultrasound, MRI. Diagnosis almost always includes a liver biopsy. This will help determine if the cancer actually started in the liver.

Treatment: Treatments generally consist of relieving symptoms of the disease. It is possible this patient will never enter a hospital for diagnosis or treatment of this cancer. Survival often is measured in months.

Staging: May be stated using any of the staging systems described in the manual, page 18 or Appendix 3.

Lung Cancer

Symptoms: Cough that won't go away. Coughing up blood. Hoarseness, shortness of breath. Increased amount of sputum. Lung infection that won't clear up. Fatigue.

Diagnosis: Lung sounds may indicate the presence of fluid in the lungs. Sputum (mucus coughed up from the lungs may be examined for malignant cells. Chest x-ray or CT scans are helpful.

Treatment: Surgical removal of the tumor is the best treatment option. This usually is recommended only if the tumor is thought to be contained within the lung. Radiation is often used for older patients, or patients whose health is compromised due to other conditions (emphysema, etc.. There may be a role for chemotherapy, probably palliative (oral etoposide, platinum drugs, taxol, taxotere, camptosar or CPT-11, Gemzar or navelbine. Survival is dependent on extent of disease and the overall health of the patient.

Staging: May be stated using any of the staging systems described in the manual, page 18 or Appendix 3.

Lymphomas

Cancers that develop in the lymphatic system are known as lymphomas. Lymphomas are divided into two types: Hodgkin's disease and non-Hodgkin's lymphomas. The treatment varies according to the type diagnosed.

Symptoms: One or more enlarged lymph nodes, usually neck, under the arms or in the groin. Sometimes fatigue, fever, chills, night sweats, decreased appetite, weight loss.

Diagnosis: Blood tests may show abnormalities. Imaging studies may show masses, or enlarged areas of lymph nodes. Biopsies are performed and may include the bone marrow.

Treatment:

HODGKIN'S: Usually depends on extent of disease. Combined chemotherapy and radiation therapy often used. Chemotherapy regimens include: MOPP or ABVD.

NON-HODGKIN'S: Treatment depends on the grade (low, intermediate, high. Close observation may the treatment of choice for older patients. Radiation therapy alone. Chemotherapy alone (cytoxan, chlorambucil, CVP, CMOPP, CHOP. Combination chemotherapy and radiation therapy.

Staging: Uses the Ann Arbor staging system, Stages 1-4. This staging systems is not used for any other cancer.

Multiple myeloma

Most often a disease of the bone marrow, also known as plasma cell myeloma. This disease is treatable but rarely curable. **This cancer is underreported in Missouri.**

Symptoms: Bone pain is the most common symptom, often accompanied by weakness and fatigue.

Diagnosis: Blood tests often reveal anemia.

99% of patients will have an M-protein in the blood or urine.

Bone marrow examination must reveal at least 10 percent abnormal plasma cells.

X-rays show skeletal abnormalities in 75% of patients at diagnosis.

Treatment: Since the disease it not curable, physicians may choose not to treat patients due to potential side effects, costs, etc.

Possible drugs: melphalan (Alkeran) with or w/o prednisone, BCNU with or without prednisone Bone pain may be treated with analgesics (aspirin, acetaminophen, and ibuprofen), narcotics or radiation therapy

Staging: There is no staging system for this disease.

Myeloproliferative Disorders

- Symptoms: Shortness of breath during exertion.
- Weakness and fatigue.
- Pale skin.
- Loss of appetite.
- Prolonged bleeding from minor cuts due to low platelet counts.
- Purpura, a condition in which the skin bleeds, causing black and blue or pin-sized spots on the skin.

This is a group of diseases in which too many certain types of blood cells are made in the bone marrow. These include:

- Polycythemia vera
- Chronic myeloproliferative disease, NOS
- Essential thrombocythemia
- Chronic neutrophilic leukemia
- Hypereosinophilic leukemia

Symptoms/Diagnosis: Usually diagnosed with blood tests. Bone marrow biopsy

Treatment: The treatments for these disorders are used to control symptoms. They are usually not curable conditions. If there are no symptoms, no treatment is necessary.

- Treatment depends on the type of disorder.
- Treatments may lower the amount of blood in the body (phlebotomy).
- Treatments may filter platelets from the blood (plateletpheresis).
- Chemotherapy (hydroxurea, chlorambucil)
- Radiation external beam radiation or using a radioactive drug, P32
- Splenectomy (removal of the spleen)

Staging: There is no staging system for these diseases.

Myelodysplastic Syndromes

This is a group of diseases in which the bone marrow does not function normally and not enough normal blood cells are made. These include:

- Refractory anemia
- Refractory anemia w/sideroblasts
- Refractory anemia w/excess blasts
- Refractory anemia w/excess blasts in transformation
- Myelodysplastic syndromes w/5q deletion (5q-) syndrome
- Therapy-related myelodysplastic syndrome, NOS
- Myelodysplastic syndrome, NOS

Symptoms: Most common sign is anemia. Patient may bleed without any reason, bruise more easily than normal, feel tired all of the time, or have an infection that won't go away.

Diagnosis: Blood tests may reveal abnormalities such as the number white blood cells (WBC may be too low or the platelets may be low.

Bone marrow biopsies would be used to determine exact kind of disease.

Treatment: Main treatment is giving red blood cells or platelets to relieve symptoms of the disease.

Staging: There is no staging system for these diseases.

Pancreatic cancer

This cancer is underreported by Missouri hospital cancer registries, most likely due to the fact these patients may only be seen for ERCP.

Symptoms: Usually there are no symptoms until the cancer is already at an advanced stage. Symptoms may include jaundice, abdominal masses/pain, enlarged liver, abdominal fluid (ascites and sometimes swollen legs.

Diagnosis: Several blood tests are helpful in diagnosis this cancer (CA 19-9, CEA, serum bilirubin. Imaging tests may be useful to establish the stage of disease. Endoscopic retrograde cholangiopancreatography (ERCP is frequently the only procedure used and is not considered cancer-directed treatment. During this procedure a tube is inserted into the opening of the pancreatic duct. If the patient's biliary duct is obstructed by tumor, a stent may be inserted which actually bypasses the obstructed. This procedure is done on an outpatient basis at hospitals or GI clinics.

Treatment: Even if diagnosed at an early stage, this cancer is rarely curable. Surgery is usually used only for palliation (relief from symptoms). Occasionally patients have surgery to relieve an obstruction, but not sure how often this would be used on patients already in generally poor health. Life expectancy for these patients is generally measured in months. It is possible this patient will never enter a hospital for diagnosis or treatment of this cancer.

Staging: May be stated using any of the staging systems described in the manual, page 18 or Appendix 3.

Prostate cancer

This cancer is underreported in Missouri.

Symptoms: Patient could be having urinary symptoms such as blood in the urine or difficulty urinating.

Diagnosis: May be diagnosed by elevated prostate-specific antigen (PSA. Digital rectal exam (DRE could detect an abnormality of the prostate. Bone scan might be used to determine extent of disease if PSA extremely high.

Treatment: If surgery is not possible, treatment could be one of several hormonal therapies (either oral or shots. Hormonal therapies include:

 Luteinizing hormone-releasing hormone agonists (LHRH agonists.) These are chemicals that stop the production of testosterone in the testicles. Essentially, they provide the benefits of an orchiectomy for men with advanced prostate cancer without surgery. This approach is sometimes called "chemical castration." However, the effects are fully reversible if you stop taking the medication.

Most LHRH agonists are injected every one to four months. Some examples are Lupron, Trelstar, Vantas, and Zoladex. A new drug, Viadur, is an implant placed in the arm just once a year. Plenaxis is a drug that's similar to LHRH agonists. However, because it can cause serious allergic reactions, it's not used that often.

• Anti-androgens. LHRH agonists and orchiectomies only affect the androgens that are made in the testicles. Thus they have no effect on the 5% to 10% of a man's "male" hormones that are made in the adrenal glands. Anti-androgens are designed to affect the hormones made in the adrenal glands. They don't stop the hormones from being made, but they stop them from having an effect on the cancer cells.

The advantage of anti-androgens is that they have fewer side effects than LHRH agonists. Many men prefer them because they are less likely to diminish libido. Side effects include tenderness of the breasts, diarrhea, and nausea. These drugs are also taken as pills each day, which may be more convenient than injections. Examples are Casodex, Eulexin, and Nilandron.

- Combined Androgen Blockade. This approach combines anti-androgens with LHRH agonists or an orchiectomy. By using both approaches, you can cut off or block the effects of hormones made by both the adrenal glands and the testicles. However, using both treatments can also increase the side effects. An orchiectomy or an LHRH agonist on its own can cause significant side effects like a loss of libido, impotence, and hot flashes. Adding an anti-androgen can cause diarrhea, and less often, nausea, fatigue, and liver problems.
- Estrogens. Some synthetic versions of female hormones are used for prostate cancer. In fact, they were one of the early treatments used for the disease. However, because of their serious cardiovascular side effects, they're not used as often anymore. J. Brantley Thrasher, MD, a spokesman for the American Urological Association and chairman of urology at the University of Kansas Medical Center, says they're usually used only after initial hormone treatments have failed. Examples of estrogens are DES (diethylstilbestrol), Premarin, and Estradiol.

- Other Drugs. Proscar (finasteride) is another drug that indirectly blocks an androgen that helps prostate cancer cells grow. Depending on the case, doctors sometimes use other anticancer drugs like Nizoral (ketoconazole) and Cytadren (aminoglutethimide.)
- Orchiectomy. The surgical removal of the testicles was the earliest form of hormone therapy for prostate cancer. However, the procedure is permanent. As with LHRH agonists, side effects can be significant. They include: Loss of sex drive, hot flashes, development of breasts (gynecomastia) or painful breasts, loss of muscle, weight gain, fatigue, and decrease in levels of "good" cholesterol.

It is possible this patient will never enter a hospital for diagnosis or treatment of this cancer.

Staging: May be stated using any of the staging systems described in the manual, page 18 or Appendix 3.

Unknown primary

Sometimes a patient develops cancer cells that cannot be traced to the site where they first started growing (primary site. When this happens, physicians to try to find the most likely source of the cancer because this will determine the best type of treatment, as well as the chances for recovery. Unknown primary cancers account for approximately 3% of all cancer patients.

Symptoms/Diagnosis: A biopsy is the best way to determine a cancer's beginnings. If tissue is not available, radiology tests (CT scan, chest x-ray, etc. may be helpful.

Treatment: Surgery is a common treatment to remove the cancer, especially if only one area of cancer is detected in the body. If the cancer is widespread, or found in several areas of the body, treatment options are more limited. Chemotherapy may be an option depending on the overall health and age of the patients. Hormonal therapies may be used if breast or prostate cancers are suspected.

Staging: There is no staging system for this disease. The prognosis for these patients is generally poor. Survival is most frequently measured in months.

Bibliography

Dollinger, M., Rosenbaum, E., & Cable, G. (1997. <u>Everyone's Guide to Cancer Therapy (4th ed.</u> Kansas City: Andrews McMeel Publishing.

Appendix 8: Reporting Forms Missouri Cancer Registry Cancer Reporting Form (CRF)

Reset Form

Be sure to attach copies of all Op notes, Path, Tx summary or Imaging reports and return with completed form via fax: 573.884.9655

PHYSICIAN/FACILITY INFORMATION							
Practice Name:	Physician Name:		Phone number:	NPI#:			
Street Address:	City:		State:	Zip Code:			
			Missouri				
	PATIENT INFO	RMATION					
Patient Last Name:	Middle Name or Initial:	First Name:					
Street Address: (please be sure to include address)	City:	State:	Zipcode:				
		Missouri					
SSN:	DOB: (MM/DD/YYYY)	Primary Paye	er at Diagnosis:				
		Not insure	-	Unknown			
		Medicare suppleme		Insured, NOS			
PATIENT DEMOG	RAPHICS/CANCER IDEI	NTIFICATI <u>ON/STAG</u>	ING/TREATMENT				
Race:	Breslow's	Tumor	Distant metastasis:	e these codes for			
White African American	information:	size:	 0-	stant metastasis: None, 1-Peritoneum, Lung, 3-Pleura, 4–Liver,			
(please specify)	Histology: (cell type)		5-1 8-1	Bone, 6-CNS, 7-Skin, LN (distant)			
Male Female	(select one) Well Moderate	Poorly Undifferentiated/ Anaplastic	Chemotherapy:				
Other (please specify)	Lymph node involvement:	ve # removed	Start Date: Agent(s):				
Tobacco History: Yes No Past DUnk	Pre op Tumor Markers:		Hormone Treatment:				
Alcohol Yes No Past OUnk	Prostate Breast (ER):	Testis (AFP):					
Marital Status at Diagnosis:	Prostate Breast (Gleasons/ (PR):	Testis (hCG):	Start Date: Type: Radiation Treatment:				
Married Divorced Display	Bx): Prostate (Gleasons/ (HER2):	Testis (LDH):					
Separated 💟 Unknown 💟 Widowed	TURP):		Start Date:				
Vital Status:	SEER Staging of Disease:	Regional*	Radiation Modality:				
cancer evidence of status unknown cancer	Distant* O Unknown	*	External beam Brachyther	ару			
Deceased, free of cancer Deceased, evidence of cancer unknown	TNM:		Other (specify)				
Is this a new cancer or a	Staging procedures: (attach c	copies of reports)	Other Treatment:				
diagnosed cancer ?	Posit	tive 💟 Negative 💟 Unk					
Biopsy Biopsy	MRI Date:	~ ~					
Date: Type: Surgical Procedure		tive 🖸 Negative 🚺 Unk					
Type:	Bone Scan Date:	ive 🔘 Negative 🔘 Unk					
Date of Procedure:	CT Scan Chest Date:						
Primary Site:		ive 🔘 Negative 🔘 Unk					
Date of Diagnosis:	CT Abd/Pelvis Date:		Other relevant information (providers previous history of other cancer(s)/co				
Laterality: 🔘 Right 🔘 Left 🔘 Bilateral	Posit	ive 🔘 Negative 🔘 Unk					
Ulceration: O Yes No	Radiograph/(other) Date:		Date of Last Contact or Death (MM/D	D/YYYY)			
Person completing form: Date			mail):				
Person completing form: Date		ntact information (fax and e	ananj.				
	[_						

Instructions for Missouri Cancer Registry Cancer Reporting Form

Physician/Facility Information

-Practice Name: Record full name of the facility/practice reporting the cancer information including Physician name.

Patient Information

-Full last name, middle initial and first name. Note any aliases or nicknames.

- -Residence address at time of diagnosis.
- -Social security number: Do not use a spouse's social security number.
- -Primary payer at diagnosis: Check insurance type

Patient Demographics

-Check the box that best describes the patient's race. Hispanic/Spanish ethnicity: Check if patient is of Hispanic/Spanish origin. See manual for additional instructions.

-Indicate patient's history of tobacco and alcohol use.

-Record the patient's marital status.

-Vital status: Check one

***Please provide *dates* where indicated. If actual date is unknown please provide an estimated date based on your admission records. *** This might be clinical, radiological or based on a Pathological report.

Cancer Identification/Staging/Treatment

-New or Recurrence: If this is the first time the patient has been diagnosed with this cancer, choose New. If this is a recurrence of previously diagnosed cancer, choose Recurrence.

-Procedures Performed: Document the type of procedure that was performed to diagnose the patient's cancer. Record the date of the procedure.

-Surgical Procedure Type: Document the surgical procedure that was performed. Record the date of the surgical procedure.

-Primary Cancer site: Record the cancer based on location of cancer (i.e. breast, colon, etc.).

-Date of Diagnosis: Record the Date of Diagnosis.

-Laterality: If the cancer occurred in a paired organ, indicate whether right, left or bilateral.

-Ulceration: Ulceration is the breakdown of the skin over the melanoma. Record any information given regarding ulceration located in the path report.

-Breslow's information: For melanoma cases, record thickness of the tumor in millimeters.

https://www.oncolink.org/cancers/skin/melanoma/treatments/understanding-your-pathology-report-melanoma

-Record the tumor size: Record tumor size in millimeters.

-Histology (cell type): This information may be found on the pathology report. Histology describes the type of cancer cell (adenocarcinoma, squamous, etc.)

-Grade: Choose one. This can be found on the path report.

-Lymph node involvement: Record # positive / # removed: Ex: 4/10

-Pre Op Tumor Markers: Add value if known.

-SEER Staging of Disease: https://training.seer.cancer.gov/ss2k/

-TNM: https://www.cancer.org/cancer/melanoma-skin-cancer/detection-diagnosis-staging/melanoma-skin-cancerstages.html

-Staging procedures: Attach copies of reports, if available.

-Distant metastasis: If cancer has spread to other sites beyond the primary site, record the site to which it has spread.

-Chemotherapy: List agents and dates for any known chemotherapy given.

-Hormone Treatment: List start date and type of hormone treatment given.

-Radiation Treatment: List start date for any radiation treatment given.

-Radiation Modality: Choose type of radiation given. If not listed, choose Other and specify.

-Other Treatment: Document the type of treatment the patient received. Include the procedure name and the place the procedure was performed.

-Other relevant information (previous history of other cancer(s)/condition(s): Document any other relevant information regarding previous history of other cancer(s) and/or conditions(s) if known. This can include primary care physicians and specialty physicians such as urologist, dermatologist, etc.

-Date of last contact: Record the last time the patient was seen by your facility.

Missouri Cancer Registry LTCF Reporting Form

Be sure to attach copies of all relevant chart information and return with completed form via fax: 573.884.9655

	PHYSICIAN/FACILITY INF	ORMATION		
Facility Name:	Facility type:		Phone number: NPI#:	
Street Address:	City:		State: Zip Code:	
			Missouri	
	PATIENT INFORMA	TION		
Patient Last Name:	Middle Initial:	First Name:		
Patient Street Address: (PLEASE BE SURE TO INCLUDE PATIENT ADDRESS ONLY)	s City:	State:	Zip code:	
		Missouri		
SSN:	DOB:	Primary Payer at D		
		Medicare w/	Medicare w/o Self pay Insured, NOS	
		supplement	supplement Supplement	
PATIENT DEMOGRAPHICS	CANCER #1		CANCER #2	
Race:	Is this:	ls th	Nis: A cancer not previously diagnosed	
White African American	A recurrence of a previously diagno	sed cancer	A cancer not previously diagnosed cancer	
(please specify)	A history of cancer with no evidence	e of that cancer	A history of cancer with no evidence of that cancer	
Male D Female	A history of cancer with evidence of	that cancer	A history of cancer with evidence of that cancer	
Other (please specify)	Date of		te of	
Tobacco Yes No Past Unk	Diagnosis:	Dia	ignosis:	
History: Yes No Past Unk	Facility/State of Diagnosis:	Fac	ility/State of Diagnosis:	
History:		[
Marital Status at Diagnosis:	Primary Site (Site of Diagnosis)	Primary Site (Site of Diagnosis):		
Separated Unknown Widowed				
Vital Status:	Laterality: 🔘 Right 🔘 Left	Unknown Lat	erality: 🔘 Right 🚺 Left 🚺 Unknown	
Alive, free of cancer Alive, evidence of cancer cancer	Histology:	His	stology:	
Deceased, free of cancer Deceased, evidence of Cancer status	Treatment:	Date: Tre	atment: Date:	
cancer unknown Usual or longest held occupation				
	Treatment	Date: Tre	atment Date:	
Industry or company of usual or longest held/ known occupation				
	Отн	ER RELEVAN	T INFORMATION	
Date admitted to your facility:	Other physicians/facilities dire	ectly involved in I	natient's cancer care:	
Date of Last Contact or Death (MM/DD/YYYY)				
Facility transferred to/from (facility name)	Other relevant patient informa	tion:		
Physician name and phone number				
		· · ·		

FOLLOW BACK INFORMATION

Person completing form:	Date:	Contact information (EMAIL AND FAX):

Instructions for Missouri Cancer Registry LTCF Reporting Form

Facility Information

-Facility Name: Record full name of the facility reporting the cancer information including care type such as Long-term Care Facility, Nursing Home or Skilled Nursing Facility.

Patient Information

-Full last name, middle initial and first name. Note any aliases or nicknames.

-Residence address prior to admission to long term care facility

-Social security number: Do not use a spouse's social security number.

-Primary payer at diagnosis: Check insurance type

Patient Demographics

-Check the box that best describes the patient's race. Hispanic/Spanish ethnicity: Check if patient is of Hispanic/Spanish origin. See manual for additional instructions.

-Indicate patient's history of tobacco and alcohol use.

-Record the patient's marital status.

-Vital status: Check one

-Occupation- Report the patient's longest held occupation and industry/company.

-Record the date the patient was admitted to your facility.

-Record the *last* date of contact or date of death. If patient is still residing at your facility, record current date. If patient transferred elsewhere, record date of transfer and record name of facility in "facility transferred to/from" -Patient transferred from/to: If patient transferred from another facility (hospital, other nursing home, etc.) please record. If patient admitted from home, record N/A. If patient transferred to another facility for cancer care, please record.

-Physician: The physician who oversaw the patient's cancer care. This should be the physician with the most information about the patient's diagnosis and treatment.

***Please provide *dates* where indicated. If actual date is unknown please provide an estimated date based on your admission records. *** This might be clinical, radiological or based on a Pathological report.

Cancer #1 and Cancer #2

-Indicate if this is a new diagnosis; a recurrence of a previously diagnosed cancer; a history of cancer with *no* evidence of that cancer; or a history of cancer *with* evidence of that cancer.

-Date of diagnosis: Record date patient was first diagnosed with this cancer. This may be the date the cancer was clinically or histologically diagnosed. If you do not know the exact date, please provide as much

information available to you, i.e. year of diagnosis. If you are reporting a recurrence, please indicate the date the cancer was **originally** diagnosed.

-Facility/State of Diagnosis: Record facility or state where cancer was originally diagnosed.

-Site of Diagnosis: Record type of cancer, based on the location in which the cancer originated (i.e. breast, colon, etc.) Laterality describes left or right (as in lung, breast, etc.)

-Histology: This information may be found on the pathology report or occasionally in the physician's notes. Ex. Adenocarcinoma, leukemia, melanoma, etc.

-Treatment information: This could be surgery, radiation or chemotherapy. In some cases palliative care is the treatment. Record in as much detail as possible (i.e. provide chemotherapy drug names, etc.).

Other Relevant Information/Comments

In this section please provide details of any other relevant patient information such as previous history of other cancers or treatments and/or the names of other hospitals and physicians who treated this patient.

Follow-Back Information

Provide the date the LTCF form was completed, person completing the form and contact information.