



Protocol for the Examination of Lymphadenectomy Specimens From Patients With Malignant Germ Cell and Sex Cord-Stromal Tumors of the Testis

Version: 4.1.0.1

Protocol Posting Date: November 2021

The use of this protocol is recommended for clinical care purposes but is not required for accreditation purposes.

This protocol should be used for the following procedures AND tumor types:

Procedure	Description
Lymphadenectomy	Includes specimens designated retroperitoneal lymphadenectomy
Tumor Type	Description
Germ cell tumors	Includes seminoma and variants, all non-seminomatous germ cell tumors, mixed germ cell tumors, Leydig cell tumors, Sertoli cell tumors, granulosa cell tumors, and placental site trophoblastic tumors
Sex cord-stromal tumors	Includes Leydig cell tumors, Sertoli cell tumors, granulosa cell tumors, and mixed sex cord tumors

The following should NOT be reported using this protocol:

Procedure
Radical orchiectomy (consider Testis Radical Orchiectomy protocol)
Tumor Type
Paratesticular malignancies (consider Soft Tissue protocol)
Non-testis germ cell tumors (consider Extragonadal Germ Cell protocol)
Lymphoma (consider the Hodgkin or non-Hodgkin Lymphoma protocols)
Sarcoma (consider the Soft Tissue protocol)

Authors

Satish K. Tickoo, MD*; Gladell P. Paner, MD*; Ming Zhou, MD, PhD*; Lara R. Harik, MD; Robert Allan, MD; Mahul B. Amin, MD; Sam S. Chang, MD; Peter A. Humphrey, MD, PhD; James M. McKiernan, MD; Jason Pettus, MD; Victor E. Reuter, MD; John R. Srigley, MD; Thomas M. Ulbright, MD.

With guidance from the CAP Cancer and CAP Pathology Electronic Reporting Committees.

* Denotes primary author.

Accreditation Requirements

The use of this case summary is recommended for clinical care purposes but is not required for accreditation purposes. The core and conditional data elements are routinely reported. Non-core data elements are indicated with a plus sign (+) to allow for reporting information that may be of clinical value.

Summary of Changes

v 4.1.0.1

- The CAP made no changes to Cancer Protocol content. We updated metadata only for the electronic Cancer Checklists (eCC), requiring a version number change for the Word and PDF Cancer Protocols.

RETIRED

Reporting Template

Protocol Posting Date: November 2021

Select a single response unless otherwise indicated.

CASE SUMMARY: (TESTIS: Retroperitoneal Lymphadenectomy)

Standard(s): AJCC-UICC 8

This template is recommended for reporting retroperitoneal lymphadenectomy specimens, but is not required for accreditation purposes.

CLINICAL

+Prelymphadenectomy Treatment (select all that apply)

- No known preresection therapy
- Chemotherapy performed
- Radiation therapy performed
- Therapy performed, type not specified
- Not specified

SPECIMEN

+Regional Nodal Site(s) Examined (specify): _____

+Number of Regional Nodal Groups Examined

- Specify number: _____
- Other (specify): _____
- Cannot be determined: _____

+Nonregional Nodal Site(s) Examined (specify): _____

+Number of Nonregional Nodal Groups Examined

- Specify number: _____
- Other (specify): _____
- Cannot be determined: _____

TUMOR

Histologic Type of Metastatic Tumor (Note [A](#))

- Seminoma
- Seminoma with syncytiotrophoblastic cells
- Embryonal carcinoma
- Yolk sac tumor, postpubertal type
- Choriocarcinoma
- Mixed germ cell tumor (specify components and approximate percentages): _____
- Non-choriocarcinomatous trophoblastic tumor, NOS
- Placental site trophoblastic tumor
- Epithelioid trophoblastic tumor
- Cystic trophoblastic tumor
- Teratoma, postpubertal type

Approved

- Teratoma with somatic-type malignancy (specify type): _____
 Spermatocytic tumor
 Spermatocytic tumor with a sarcomatous component
 Well-differentiated neuroendocrine tumor (monodermal teratoma)
 Other histologic type not listed (specify): _____
 Cannot be determined: _____
+Histologic Type Comment: _____

Histologic Viability of Tumor (if applicable) (select all that apply)

- Not applicable
 Viable teratoma present
 Viable non-teratomatous tumor present
 Viable tumor not identified
 Other (specify): _____
 Cannot be determined: _____

LYMPH NODES**Regional Lymph Node Involvement****Number of Regional Lymph Nodes with Tumor**

- Exact number (specify): _____
 At least (specify): _____
 Other (specify): _____
 Cannot be determined (explain): _____

Regional Nodal Site(s) with Tumor (select all that apply)

- Interaortocaval: _____
 Paraaortic: _____
 Paracaval: _____
 Preaortic: _____
 Precaval: _____
 Retroaortic: _____
 Retrocaval: _____
 Other (specify): _____
 Cannot be determined: _____

+Size of Largest Nodal Metastatic Deposit*Specify in Centimeters (cm)*

- Exact size: _____ cm
 At least: _____ cm
 Greater than: _____ cm
 Less than: _____ cm
 Other (specify): _____
 Cannot be determined (explain): _____

Site of Largest Nodal Metastatic Deposit (select all that apply)

- Interaortocaval
 Paraaortic: _____
 Paracaval: _____
 Preaortic: _____

Retroaortic: _____
 Retrocaval: _____
 Other (specify): _____
 Cannot be determined: _____

Size of Largest Lymph Node or Nodal Mass

Specify in Centimeters (cm)

Exact size: _____ cm
 At least: _____ cm
 Greater than: _____ cm
 Less than: _____ cm
 Other (specify): _____
 Cannot be determined (explain): _____

Histologic Subtype of Germ Cell Tumor in Largest Involved Lymph Node (if applicable):

Extranodal Extension (ENE)

Not identified
 Present
 Cannot be determined: _____

Number of Regional Lymph Nodes Examined

Exact number: _____
 At least (specify): _____
 Other (specify): _____
 Cannot be determined (explain): _____

Nonregional Lymph Node Status (Note B)

All nonregional lymph nodes negative for tumor metastasis
 Tumor metastasis present in nonregional lymph node(s) (M1a, AJCC 8th edition)

+Number of Nonregional Lymph Nodes with Tumor

Exact number (specify): _____
 At least (specify): _____
 Other (specify): _____
 Cannot be determined (explain): _____

+Nonregional Nodal Site(s) with Tumor: _____

+Number of Nonregional Lymph Nodes Examined

Exact number (specify): _____
 At least (specify): _____
 Other (specify): _____
 Cannot be determined (explain): _____

 Other (specify): _____
 Cannot be determined (explain): _____
 Not applicable

PATHOLOGIC STAGE CLASSIFICATION (pN, AJCC 8th Edition)

Reporting of pN category is based on information available to the pathologist at the time the report is issued. As per the AJCC (Chapter 1, 8th Ed.) it is the managing physician's responsibility to establish the final pathologic stage based upon all pertinent information, including but potentially not limited to this pathology report.

N Descriptors (select all that apply)

- Not applicable: _____
- r (recurrent)
- y (post-treatment)

pN Category

- pN not assigned (cannot be determined based on available pathological information)
- pN0: No regional lymph node metastasis
- pN1: Metastasis with a lymph node mass 2 cm or smaller in greatest dimension and less than or equal to five nodes positive, none larger than 2 cm in greatest dimension
- pN2: Metastasis with a lymph node mass larger than 2 cm but not larger than 5 cm in greatest dimension; or more than five nodes positive, none larger than 5 cm; or evidence of extranodal extension of tumor
- pN3: Metastasis with a lymph node mass larger than 5 cm in greatest dimension

COMMENTS

Comment(s): _____

Explanatory Notes

A. Histologic Type

The protocol mainly applies to malignant tumors of the testis, the vast majority of which are of germ cell origin. It may also be applied to other malignant or potentially malignant tumors of the testis included in the classification shown below. [1.2.3.4.5.6.7.8.9.10.11.12](#) For hematolymphoid neoplasms involving the testis, refer to the corresponding CAP protocols.

World Health Organization (WHO) Histologic Classification of Testicular Tumors (2016)¹³

Germ Cell Tumors Derived From Germ Cell Neoplasia In Situ

Noninvasive germ cell neoplasia

Germ cell neoplasia in situ

Specific forms of intratubular germ cell neoplasia

Tumors of a single histologic type (pure forms)

Seminoma

Seminoma with syncytiotrophoblastic cells

Nonseminomatous germ cell tumors

Embryonal carcinoma

Yolk sac tumor, postpubertal type

Trophoblastic tumors

Choriocarcinoma

Nonchoriocarcinomatous trophoblastic tumors

Placental site trophoblastic tumor

Epidermoid trophoblastic tumor

Cystic trophoblastic tumor

Teratoma, postpubertal type

Teratoma with somatic-type malignancy

Nonseminomatous germ cell tumors of more than one histologic type

Mixed germ cell tumor

Germ cell tumors of unknown type

Regressed germ cell tumor

Germ Cell Tumors Unrelated to Germ Cell Neoplasia In Situ

Spermatocytic tumor

Teratoma, prepubertal type

Dermoid cyst

Epidermoid cyst

Well-differentiated neuroendocrine tumor (monodermal teratoma)

Yolk sac tumor, prepubertal type

Mixed teratoma and yolk sac tumor, prepubertal type

Yolk sac tumor, prepubertal type

Sex Cord-Stromal Tumors

Pure tumors

Leydig cell tumor

Malignant Leydig cell tumor

Sertoli cell tumor

Malignant Sertoli cell tumor

Large cell calcifying Sertoli cell tumor

Intratubular large cell hyalinizing Sertoli cell neoplasia

Granulosa cell tumor

Adult granulosa cell tumor

Juvenile granulosa cell tumor

Tumors in the fibroma-thecoma group

Mixed and unclassified sex cord stromal tumor

Mixed sex cord-stromal tumor

Unclassified sex cord-stromal tumor

Tumor Containing Both Germ Cell and Sex Cord-Stromal Elements

Gonadoblastoma

Miscellaneous

Ovarian epithelial-type tumors

Serous cystadenoma

Serous tumor of borderline malignancy

Serous cystadenocarcinoma

Mucinous cystadenoma

Mucinous borderline tumor

Mucinous cystadenocarcinoma

Endometrioid adenocarcinoma

Clear cell adenocarcinoma

Brenner tumor

Juvenile xanthogranuloma

Hemangioma

Hematolymphoid Tumors

Diffuse large B-cell lymphoma

Follicular lymphoma

Extranodal NI/T-cell lymphoma, nasal type

Plasmacytoma

Myeloid sarcoma

Rosai-Dorfman disease

Tumors of Collecting Duct and Rete Testis

Adenoma

Adenocarcinoma

Tumors of Paratesticular Structures

Adenomatoid tumor

Mesothelioma

Well-differentiated papillary mesothelioma

Epididymal tumors

Cystadenoma of the epididymis

Papillary cystadenoma

Adenocarcinoma of the epididymis

Squamous cell carcinoma

Melanotic neuroectodermal tumor

Nephroblastoma

Paraganglioma

Mesenchymal Tumors of the Spermatic Cord and Testicular Adnexa

Apipocytic tumors

Lipoma
Well-differentiated liposarcoma
Dedifferentiated liposarcoma
Myxoid liposarcoma
Pleomorphic liposarcoma

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B. Metastatic Tumor

Often the most important distinction in patients with metastatic testicular germ cell tumor following initial chemotherapy is the differentiation of metastatic residual teratoma from nonteratomatous types of germ cell tumor. Pure teratomatous metastasis is generally treated by surgical excision alone, whereas patients who have other residual germ cell tumor components are usually treated with additional chemotherapy.